



30307CNT1.ST25
SEQUENCE LISTING

<110> JOAN, KNOLL H
ROGAN, PETER K

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<141> 2004-02-24

<150> 09/573,080

<151> 2000-05-16

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aaccccaatt aagcaaaatg ttatcccwaa aaagaattcc attcttctca ttagtagacc 2100
tgtattacaa aaaattgtac tcaattatta ttwtattat attttgaatt tcatcaataa 2160
aaattgtgga attttttctc ttgttatata agtacctaca taatatcctt gattttgcct 2220
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agtggatgaw aagttaata tgagccagca gtgtgctggt gctgccaaa aagccaacag 180
tatcctgggc tgcattaana agaggattga cagcagatca mgggaagtga ttatacccct 240
ttacaatgcc ttggtgaggc cacatttga atactgcac cagttttggt caccccaatr 300

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30307CNT1.ST25

caaaaaggat gttgagactt tagagagagt acagagaaga gcaacaaaga tgatcagagg 360
gctggaggac ctaacctatr aggaaaggyt gatggaattg ggcttgttta gtttgragaa 420
gagaaggatg aggggagaca tgatagcagc ctt 453

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atyactcakt	actcacgcgt	ttgtggcgat	gctgggtgtaa	acaaacctac	tgcgctgcca		180
gttgataaaa	agtatagcac	atacaattat	gtacagtaca	taatacttga	tagtgataat		240
aaatgactat	gttactgggt	tatgtattta	ctatactata	ctttttatta	ttattttaga		300
gtrtactcct	tctacttatt	aaaaaaaaaa	gttaactgta	aaacagtatg	ccgtgttaga		360
ccggcagcag	ccacatgcat	ctcgtgttta	ccgcgtctct	tgattgcatc	attttctctt		420
gtgcttgatt	taatctcatg	tgttttgttc	atcacggctc	ctaagcgttc	aaaatccacg		480
gctaagtgtg	ccagtaagag	gccacgtcga	gtaattgagc	tggaacaaa	attaaaagtg		540
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ccattcgacc	atagctgcca	ccttgaagaa	caagagcaaa	gtgacagaaa	ctgttaaagg		660
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cacgacgacc	acggccagag	caaaagggat	atttttgatg	ttgaaagaaa	aggctggacc		840
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gcaatgttgc	aggctacaaa	ttgaagccct	ttgtgatccg	acacagtga	aaccccaggg		1200
ccttcaagca	tatcagtaag	cacacgtcgc	cagtgtacta	caggagcaat	aaaaagtcac		1260
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cacatcttcc	ttttactggg	gatcttcatc	ccaatttcaa	agtgggtgtt	ctctctccaa		1440
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cagagaaggg	ccttcgcca	ggttatcact	gtaactgagg	aagacactga	tgcaattctg		1560
gaaggattac	aacagccaag	actgcatcaa	gaaccttgct	tgggattggg	gtgatgtcac		1620

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aggatttgcc aaggatgagg aggttgcaaa aatcaacaag gctgtgggtg agatggcaaa	1740
caactttaac ctgggtgtgg atgaggatga cattgaggag ctcttagagg tggttcctga	1800
ggaattgact aatgaggagt tgttggaact ggaacaggaa tgcatactg aagaagaggc	1860
aagagaaaag gaaactgcag gagaagaaga agaaccacca agaaaattca cagtaaaggg	1920
tttagcagaa gcttttgag acctcaacaa gctcctttaa aagtttgaaa acatggaccc	1980
caacaccgaa aggttttcat taatagagag gaatgttcat ggtgcattat ctgcttaca	2040
gcaaattctat gatgacaaaa agaaacaaac caagcaaacc atcatggaca tatatttctg	2100
aaaagagtga cacctcctca agaagagcct caggcaggtc cttcaggaga tattccagaa	2160
gaargcatcg ttatcatagg agatgacagc tccatgcatg ttattgcccc tgaagacctt	2220
ccagtgggac aaaatgtgga ggcggaagac agtgatattr atgacctga ccctgtgtag	2280
gcctaggcta atgtgtgtgt ttgtgtctta gtttttaaca aaaatntttt aaaaaataaa	2340
aaaatwaaaa atttwwaaat agaaaaaagc ttatagaata aggatataaa gaaagaaaat	2400
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attgctgaaa aarwwwwwww wwwwwataa awttagtata gcctaagtgt acagtgttta	2580
taaagtctac agtagtgtac agtaatgtcc taggccttca cattcactca ccactcactc	2640
actgactcac ccagagcaac ttccagtcct gcaagctcca ttcattggtaa gtgcycata	2700
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 <304> 35

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<305> 4
 <306> 286-291
 <307> 1992-10
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 ttaccattgt gttacaattg cctacagtat tcagtacagt aacatgctgt acagggtttgt 180
 agcctaggag caataggcta taccayatag cctagggtgt tagtaggcta taccatctag 240
 gtttggtgtaa gtacactcta tgatgttcgc acaacgaaat tgcctaataa cgcattttctc 300
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atyactcakt	actcacgcgt	ttgtggcgat	gctgggtgta	acaaacctac	tgcgctgcca	180
gttgataaaa	agtatagcac	atacaattat	gtacagtaca	taatacttga	tagtgataat	240
aaatgactat	gttactgggt	tatgtattta	ctatactata	ctttttatta	ttattttaga	300
gtrtactcct	tctacttatt	aaaaaaaaaa	gttaactgta	aaacagnctc	aggcagggtc	360
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tgatcctgac	cctgtgtagg	cctaggctaa	tgtgtgtgtt	tgtgtcttag	ttttaacaa	540
aaatntttta	aaaaataaaa	aatwaaaaa	tttwaaata	gaaaaagct	tatagaataa	600
ggatataaag	aaagaaaata	tttttgtaca	gctgtacaat	gtgtttgtgt	tttaagctaa	660
gtgttattac	aaaagagtca	aaagttaaaa	atgcaaaagt	ttataaagta	aaaaagttac	720
agtaagctat	ggtaatttta	ttgctgaaaa	arwwwwwww	wwwataaa	wttagtatag	780
cctaagtgt	cagtgtttat	aaagtctaca	gtagtgtaca	gtaatgtcct	aggccttcac	840
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cctagggtgtg	tagtaggcta	taccatctag	gtttgtgtaa	gtacactcta	tgatgttcgc	1140
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<302> Prototypic sequences for human repetitive DNA

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caacaagaga aaacggtgct gcagggtggc gtgcgctggc cgcagggact caggaggatg      660
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 gtgcccccca tgggagaaac acacaccctt ggtgaaagcc agggactcca cgacccccctt 180
 gggcccggtc ctggaactgc tggaaaggca ctggtctctg gtagagtaca ccagcctcct 240
 attcggactc gccacttttt tcctccagct gcctcaatgt caccctgaaa tcctggcatc 300

30307CNT1.ST25

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gtgaccacgt ccctcgggga cttcttgtca tgttgggcgg gccgcctgtg gggacagaca 360
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<223> n is a, c, g or t

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<302> Prototypic sequences for human repetitive DNA
<303> Journal of Molecular Evolution
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aacccaacct gccggttatg ggagcaggaa atgtcaacct cgctgcaggg tccagacaca	5880
caggaagccg gactagatgt ggaagctcta aagggtgcaga aaaaggactc cagagcgttg	5940
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 <309> 1996-01-26

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attaatatga gaatgaccga aaagtgcatt taggaccata ttataatttt cgggttccca	180
ggtgcacgtt tccaataacc aggtgcacgg atgtataggg tccccccat ggatagaggt	240
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 <303> Journal of Molecular Evolution
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 gtcctcccag cggctgcggc ccagccggac tccagctccg cgcaggcgcc agggccctcc 600
 accctccgtc cggccgcgac cgcgaggagg aagaggagat gggctacgc agggccggcc 660
 caccgccgt tcgcgcgtgc gcacggggag gccggggcgg ggcgcgtgag gacttcggcg 720
 cgcgccgga gcacgtgcgc gggctgggcg ctctggcggt gtgcgctgag gtgggcagag 780
 cggcaggtgg gggcgttggg ggctgagtcc cgatttcct gagggagggt cgggtagagg 840
 cgggcggtgg gcaggtttgg gggtgacaga gggctgggga cagtggggtc cagttgccgg 900
 acagaggagg aaggtgccc cactggggag gaaagcagtc catttgcaa attggcccgt 960
 ctcagttaag acgttgcttt cggtcacat ctgcggctgt cagccaggaa aaaacttccc 1020
 tgacgctgtt acgatggagg ccagaacttg gttaatgtgt aacaaggagg cagtaggccc 1080
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 <307> 1992-10
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 accactgtct gtgctgtgtc tttcaaaggt cagaagagat tgnacctttg tgtttttatt 240
 ttccctgtgt ttgctttttc tcnntgggga acctgtgttg ctgctttgaa ggtatattca 300
 tactggccnn tcanntgnnc aacatcnnc aantnactag ttanggcttt caaaatatgn 360
 tattttcaaaa aattanccgt ctgtattttc catatgcagt tataagtagg tttcatcggt 420
 tatgttttat tcctcagttt atacatttga ttattgtacc aagcagagta cctttgaaat 480
 tttttttcat ttaaaaaata tggatcttta aaaaaaatt atatatgata tatattacat 540

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<210> 50
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 <223> hsmar1

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 <303> Journal of Molecular Evolution
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30307CNT1.ST25

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ttacgttttt ttgctaataa cttattactt gctgtttatt ttatgtttat tttagactat	180
ggaaatgatg ttagacaaaa agcaaattcg agcgattttc ttattcgagt tcaaaatggg	240
tcgtaaagcg gcggagacaa ctcgcaacat caacaacgca tttggcccag gaactgctaa	300
cgaacgtaca gtgcagtggg ggttcaagaa gttttgcaaa ggagacgaga gccttgaaga	360
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agctgatcct cttacaacta cgcgagaagt tgccgaagaa ctcaacgtcg accattctac	480
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tgagctgagc gaaaatcaaa aaaatcgctg ttttgaagtg tcgtcttctc ttattctacg	600
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gcaggatgca gaaaatgctt tccaagagtt cgtcgaatcc cgaagcacgg atttttacgc	1140
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 <303> Journal of Molecular Evolution
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 tctagtttga ggcactaaga aggataagac atcagtttga aaagagcccc tatcagagca 180
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 gatgggtgcc aaaaccgttg cgcccagatc agctgcagac aagagcagag ctttcaatgg 600
 aaattttaaa caagtgggat caagatcctg aagcatttct tcgaagaatt gtaacaggag 660
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<303> Journal of Molecular Evolution

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<307> 1992-10

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ttgcaatrga gaaatagtcc tggggagaca tcccataact gtagccctat cacaggggtgt 240

ctgtctgtag ccccatgtga ggggtgtctgt ctgtagcccc attgcggggg gtctggggtg 300

gtgagtattc taggcgctgc caacgncccc ttccttctcc tgactkgttc tgtagccccc 360

tggtgggggtg tctgttggtg gccycacggg gtgtctgtct gtagcccat catgggggtgt 420

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ataggagaat agtttggaag ggatactctt ggatttgaga cttgggtctgg gatctgtgtt 600

ttgaaggcct tctgttcgtc ttatctttgt gtgtgtttgt atatgtggag gggatctctg 660

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tcacatttgg tgagccctaa agaaagctca acaggcctgt ctygggggtga ctatctgtc 780

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<303> Journal of Molecular Evolution

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gcacggagag agaatccgcg cacttggng agggagagcg cagcgattgt gggactttgc 300

gttgaantc agtgctgccc tgtcanagcg gaaagcaaca ncgggcagaa ctcagccggc 360

gctcatagag ggancattta gaccagccct agncagaggg gaatcaccca tcccagcggt 420

cggaacctaa gttccggcaa gcctcgccac cgtgggctaa agtgcnntag ggtcctaaat 480

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ggccaaggga ntgcttgccg caccctctcc cycaacncca ggcagcaca ctcgcagctc 660

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ycccnattct aggcctagc tcccggatga cttttctaaa cacaccctgg gccagaaggg 840

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 ccccracttt tccgaggggc taccagagg actgtcttct gtcttgccwg tctcrgagct 360
 ctgataggcc cggcataatc tagacaccg ggggagaaca gagatggtgg tttgggctgg 420
 tagatgccat agctnctcac ccctgctcag cacagaacaa gnagatgaaa acccccagnt 480
 ctcagctttc ccctgaggag gaaaanagtt gaatggactg gaaaacagaa ttgaatggag 540
 catccaacaa tccagctttc tgggagtgcc taaggaaccg attgcatttc aacttgtcgc 600
 gctacgctga tangattnan cataccctan atgctcggcg actgcaaaga acaaaaanca 660
 ggttggacta gtacgaaggt ttgagaggnc cccaaaatct ctggctaggc tgatcggtga 720
 aggtcttctc ctgcataagg ccagtctgtg aagactgaga gaggtggctg ctttgtataa 780
 tgcgcagaca ccaatacaga gagtcaagga aaataaagaa tcagggaan atgttccaaa 840
 caaaggaaca ggataatttt ccagaaactg accctaataa attggagtta tanaatttac 900
 ctgacgaaga attcaaaaca attgttntaa agatgctcat gaataacatg ataaagatgc 960
 tcaccaagat caggaaaaca atacatgaac aaagtgaagaa tttcaacaaa gagatagaaa 1020
 atgttaaaaa gtaccaaaca aaaatcatgg agctgaagaa tacaataact gaactgaaaa 1080

30307CNT1.ST25

attcactaga gaggttcaac agcagactag atcaagcaga agaaaggatc agtgaactca	1140
angacagggtc attcgaaatt atcgagtcag aggagcaaaa agaaaaaaga atgaaaaaga	1200
gtgaagaaag cctaagggat ttatgggaca ccatcaagng aaccaanata cacatcatgg	1260
aagtcccgga aggagaagag agaganaaag gnccagaaaag cntattcgaa gaaatagtga	1320
ctgaaaactt cccaaatctg gggaaagaaa tggacatcca gatncaagaa gccca	1375

<210> 67
 <211> 600
 <212> DNA
 <213> Homo sapiens

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 <223> 11m3de_5

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 <223> n is a, c, g or t

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 <303> Journal of Molecular Evolution
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 <307> 1992-10
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gatagggcag ataaacaata gacctccagg agcctgaaca ggagggttggc acttcccatg	120
ccttctcccc agctcactcc agtgataaat ccagggtctac agattctccc tggaaggagt	180
ttgtccacac atcaagcgcc ccaactttta tagcttccac ccaagggact ggctcctaaa	240
tcacctagct ctgggagttg atggggcttt gcatttatga gtctccctag accacagaga	300
acaaagaggt ggttttaaaa caggcacact tccagcagct atctccccag gatcagaggg	360
tgcagcctga acatgagtac aggnattttgc cacagatcct ctccctggct tagtgcagag	420

30307CNT1.ST25

agagtgggag ataaacaccc atgctcagct tcaccstgaa gatagaagaa actggaacat	480
acatccaaca ccctaacctt tccagctaca tctagagagt ctggtttcta ccttacctgt	540
ctyagagtac tracaggata tggcacatcc taatctccag ggggccacca aaaacanaga	600

<210> 68
 <211> 750
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(750)
 <223> 11m3e_5

<220>
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 <222> (10)..(10)
 <223> n is a, c, g or t

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 <222> (192)..(192)
 <223> n is a, c, g or t

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 <222> (198)..(198)
 <223> n is a, c, g or t

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 <222> (235)..(235)
 <223> n is a, c, g or t

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 <222> (240)..(240)
 <223> n is a, c, g or t

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 <222> (255)..(255)
 <223> n is a, c, g or t

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 <222> (527)..(527)
 <223> n is a, c, g or t

<220>
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<222> (617)..(617)
 <223> n is a, c, g or t

<220>
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 <222> (680)..(680)
 <223> n is a, c, g or t

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 <302> Prototypic sequences for human repetitive DNA
 <303> Journal of Molecular Evolution
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 <306> 286-291
 <307> 1992-10
 <309>
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<300>
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 aacaaaaaac aaatatacag caccaagatt atcaccagca atatcccaga actcaaatat 120
 gaggatgaga cagttcctga ggccacagag aagtaaaaaa ctctgagcag ayagtaagag 180
 aattagactt cnatatcnac ratgcccctc cccaatctg cccagcacca catanaaaan 240
 ttctcccaga ctcanagttt ctacaytgga aaaagtgaga ttraggtgga caaccagctt 300
 ccccaccatc ttgggttcct tggcaggaga cctgtccctg cctcaacca trggaagcat 360
 caygagtgcc tgaagggaga aatatycctg aggacagcca gagacaaagg gaggaggtag 420
 gactaccatc cccagccctg gaaactcggg gggctgctct gtaacttggm caaaggagac 480
 accaaatcag agtggctgtt cagcagcacc atgctgtagg aggttcnttc cacagggtccc 540
 ctggrcatga acccctagcc agccttccca cactgccagg atatcccctt tgggacctcc 600
 cccaatccgg gatgggnagc actctgagag ccaaggcaaa cctrggctta aggtgccatc 660
 tagtgcygaa aggaggcagn gacctagyga aaagaaattc aacaggtaaa ttacaaagaa 720
 tctctaagca aacaaaacaa accagmcaga 750

<210> 69
 <211> 1165
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(1165)
 <223> 11m5_5

<220>
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<222> (94)..(95)
<223> n is a, c, g or t

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<222> (237)..(237)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (336)..(336)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (479)..(479)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (544)..(544)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (593)..(593)
<223> n is a, c, g or t

<220>
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<222> (597)..(598)
<223> n is a, c, g or t

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<222> (791)..(791)
<223> n is a, c, g or t

<220>
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<222> (793)..(794)
<223> n is a, c, g or t

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<222> (796)..(796)
<223> n is a, c, g or t

<220>
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<222> (1026)..(1026)
 <223> n is a, c, g or t

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 <222> (1031)..(1032)
 <223> n is a, c, g or t

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 <222> (1034)..(1034)
 <223> n is a, c, g or t

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 <307> 1992-10
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<300>
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 <309> 1996-01-26

<400> 69
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 acaaccataa ctggtgaaaa ttatttttaa aaanncaacc atttaaagtc tctggaaatt 120
 gtcctaaggg catacagcaa atgaaacatt tattcaagaa aatctactaa atcttagtaa 180
 gaacagtgag agtctgtggt atttgagcca tgactgtctc cttcttccc ccccccnaac 240
 cagctcagca wtagataaac tccactccag gtkggtgcag ccaagaacac agggctccct 300
 ctcccctcag ctcccagtca agggctatgg tatctnccta ggaggagcag gacatcagca 360
 tttctcatcc ccccagctc catgttgcag aggctaaatt ccagggtgagt gtagctgaga 420
 ggtcgggggc tcccttctc caccagccc ccactcatag gatggacttg gctctaccng 480
 ccagggtatgg caggctgaga atactggggc cctaattacc cttaccccag ctcgctcata 540
 gggagagagt tccatgccag gagaggcaag ccaagaagac cagaggctac trncccncc 600
 cagcaccag agcagtggct cagagatttt gccaggggg agaggcaggc cataagaaca 660
 gagagctcca aagctctccc caaaggaact gactttattt gcaacagagt gtgaggaagt 720
 tcaagcctaa gggcactctc aaaaacaatg gagatttttg tggtagcaa ttaaggagg 780
 ctggtagctc nannanagya acaagctaaa ccataggcca gctagtttac cagagagaac 840
 cagggaaaga gacagctaag aagagccctc ctggggtcag aacaaacctc aaacactgac 900
 ctcaaaaaac taccctgcc traatttaat tggatcagac tgtggagcaa tttatgcccc 960

30307CNT1.ST25

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agggattggtt gaaaaacaat agagcaatca gccagcaatt agtggagcct aacagctggg 1020
tgtgantacm namngaggca gacagcttaa cagagagatc agagaaagag acagtcaaag 1080
agagccctgc taaaaccact gtcatcccag ggtgactgtg cacatgccc aaggctgtgcc 1140
ctctgaggag caacatcaga ggctt 1165

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<210> 70
<211> 2113
<212> DNA
<213> Homo sapiens

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<222> (1)..(2113)
<223> 11m6_5

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<220>
<221> misc_feature
<222> (214)..(214)
<223> n is a, c, g or t

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<302> Prototypic sequences for human repetitive DNA
<303> Journal of Molecular Evolution
<304> 35
<305> 4
<306> 286-291
<307> 1992-10
<309>
<313> (1)..(2113)

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<309> 1996-01-26

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gacatcagca agatggcgga ataggacttt ccagcgctcg tcctcacaga aacatcaatt 60
tgaacaacta tccacgcacg aaaatacctt cacaagagct aaggaaacca ggtgagagat 120
tacagyacct gggtgtagca cagaaataag aaaagacgca ttgaagaggg taggaaggac 180
agttttacat taccgcgctc acccctcccc caancccgag cagcacagca tggagagaga 240
taccctctgc ttgggggaag gagaggggaag tgagcacagg actttgcctt ggaccccaaa 300
cactaggccc gccccagtaa aaccagtag taggcaggcc cccatagccc cagactccag 360
gccagtagct acggactgag ccgyaccaga tcccacagcc caggctccag gcctgcctgg 420
tgagctcagt ctccaggcct gccccagcac caggccaacc ccagtgcctc aggtccaga 480
ccggccccag caccaggcca gccccagtag cccaggctc caggctgsc cagcaccag 540
gctggcccc atagccccag gcttcaggcc cccccagca ccaggctggc ccctrcagcc 600

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30307CNT1.ST25

ctagtcatca ggccagcacc tatagaccca gcctccaggc tggcccctgt agacacaggc	660
tccaggccta cccagcrcca ggccagcccc tgtagcccca ggctccaggc ccaccccagg	720
ytccagacca gcccagagcc aggtyggccc acatagcccc aggcttcagg cctgccccag	780
yaccagggtca gcacccctgg cctcagacct tagccaggta ccaggctggc acctgtagac	840
acagggtcca ggcctgcccc gtaccaggcc agtccctgtg gccccaccct ccagggyag	900
cccctgtggc cccatgtctc agcagaccca gggttcaggc ctgtcccagt agaccccagc	960
actaggctag tccccataga cccaggctcc aggactgtcc ctgtgtaccc aggtcccagg	1020
gcagccccta tggccccagg acccaggcca gccctcagag acctagcctc taggccagcc	1080
ctgcagaccc agcctccagg ctggcaccca yagacccaag ctccaggcca tccccagggt	1140
tccaggccag cctcagtagc tccaggcacc aggctagcac ccacagaccc aggctccaga	1200
ctagccccac gctaccccag caccaggcca gccccaggct ccaggctggc ccctgtggcc	1260
cagggtccag tggaccagg gtccaggcct gctccagcag acccagggtc caggcccacc	1320
ccagtagacc ctgggtccag gctagcccc atggactcag gctccaggac caccctgca	1380
gaccagggt ccaggccagc cccyatggac caggatccar ggcccatytc cccagttgca	1440
ggctccaggc ctgccccagt gccaggccag cccccatgga ctcaggctcc aggcccatcc	1500
cagtggaccc aggctccagg cccatcccag yaccaggcca gcccctgyag actcaggctc	1560
aaggcccacc ccagcaccag gtcagcccct gtggaccag gcttcaggcc agcccctata	1620
gacacaggct ccaggccyac cctcatggac ccagggtcca ggccayccc cacagacca	1680
atcaacagggt ccaccagtg gatccaggct ccaggcycaa ccctgtggac ccaggcacca	1740
ggcctgccac ctgctgaccc aggaccagg ccagcctgcc taaggactcc agcagcaagc	1800
ctgcctatag accataccag atggcctgcc cagaatctct ggatgactgg tgaagggtt	1860
tcccagacaa agccagtctg caaagactgg aataagtccc tacttcttca aatgtgcaga	1920
caccaatgca aggccaaga atcawgaaca atcagggaac catgacacca ccaaaggaa	1980
aaaataaatt tccagtaact gaccctaaag aaatggagat ctatgaactg cctgacaaag	2040
aattcaaaat aattgtttta aggaagctca gtgaactwca agaaaacaca gatagacaat	2100
taaatgaaat cag	2113

<210> 71
 <211> 587
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(587)
 <223> 11m7_5

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<307> 1992-10
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<309> 1996-01-26

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taactccact ttttgttttc tacatgattt aaragactaa tacatttttt aaaaattatt      180
agtctaaaag ctagtattat tgtaattttg gtttgtaact ccattttggt ttctacataa      240
tttaaaagac taatacatta aaaataatta ttaatttatg tttttgggca cacaatgtat      300
aaagatgtaa ttttgtgaca tcaataactg aaaggggttg ggayagagct gtaaaggcag      360
agtttttgta tgttattgaa gttaagtttg tataaattca aattagattg ttataacttt      420
aggatgttaa atgtaatccc catggttaacc acaaagaaaa tagctataga atatacacia      480
aaggaaatga gaagggaatt aaaatatttc actacaaaaa aaatcaacta aacacaaaag      540
aagacagtaa tggaggaaat gagggacaaa aaagctataa ggcatat      587

<210> 72
<211> 1069
<212> DNA
<213> Homo sapiens

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<223> l1ma10

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<222> (984)..(984)
<223> n is a, c, g or t

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<306> 286-291
<307> 1992-10

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<309>
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<300>
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 attaaaaaat gggcaaarga cctgaataga catttytcaa agaagacat acaaattggcc 120
 aacagatata tgaaaaaatg ctcaacatca ctaatcatca aggaaatgca aattaaaacc 180
 acaatgagat atcacctcac acctgttaga atggctatta tcaaaaagac agaaaataat 240
 aaatgttggy gaggatgtgg agaaaagga actattgtac actgttggtg ggaatgtaaa 300
 ttagtayagc caytatggaa aacagtatgg aggttcctca aaaaaytaa aataraacta 360
 ccatatgaty cagcaatccc actwctgggt atatatccaa argaattgaa atcagtatgt 420
 ygaagagata yctgcactcc catgtttayt gcagcaytat tcacaatagc caagatatgg 480
 aawcaaccta agtgtccatc aayggawgaa tggataaaga aaatgtggta tatatacaca 540
 atggaatact attcagccat aaaaaagaat gaaatcctgt catttgyarc aacatggatg 600
 aacctggagg acattatgct aagtgaata agccaggcac agaaagacaa atactgcatg 660
 attccactta tatgaggtat ctaaaatagt caaactcata gaagcagaga gtagaatggt 720
 gggtgccagg ggctgggggr agggggaaat ggggagttgc tgttcaatgg gtataaagtt 780
 tcagttatgc aagatgaata agttctagag atctgctgta caacattgtg cctatagtta 840
 ataatactgg attgtacact taaaawttgt taaaagrgta gatctcatgt taagtgttct 900
 tatcgcaaa caaaaaaatg gggaactttt ggrrgtgatg gatatgttca ttatcttgat 960
 tgtggtgatg gtwtcacggg tgtntacata tgtcaaaact catcaaattg tacacwttaa 1020
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<210> 73
 <211> 1055
 <212> DNA
 <213> Homo sapiens

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<221> misc_feature
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 <223> n is a, c, g or t

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 <305> 4
 <306> 286-291
 <307> 1992-10
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 <309> 1996-01-26

<400> 73
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 attaaaaart gggcaaaaga catgaayaga cttttctcaa agaagacat acaaatggcc 120
 aacargyata tgaaaaaatg ctcaacatca ctaatcatca gagaaatgca aatcaaaacy 180
 acaatgagat atcatctcac cccagttara atggctttta ttaaaaagac aaaaaataac 240
 aratgctggy gaggatgtgg agaaaagga actcttayay actgttggtg ggaatgtaaa 300
 ttagtacarc caytatggaa aacagtttgg agrttyctca aaaaactaaa aatagarcta 360
 ccatatratc cagcaatccc actrctgggt atatayccaa agaaaaggaa atcagtatat 420
 yaaaragata cctgcactcc catgtttatt gcagcactat tcacaatagc haagatttgg 480
 aatcaaccta agtgtccatc aacrgatgaa tggataaaga aaatgtggta catatacaca 540
 atggagtact attcagccat aaaaaagaat garatcytgt catttgcagc aacatggatg 600
 gaactggagg tcattatgtt aagtgaata agycargmac araaagacaa acaytgcag 660
 ttctcactta tttgtgggat ctaaaaatca aaacaattga actcatggag atagagagta 720
 gaaggatggt taccagaggc tgggaagggt agtnggagga ttggggggng gkgrrgaggg 780
 atggttaatg ggtacaaaaa aatagttaga aagaatgaat aagacctagt atttgatagc 840
 acaacaagg tactatagtc aataataatt taattgtaca ttttaaaata actaaaagag 900
 tataattgga ttgtttgtaa cacaaaggat aaatgcttga ggggatggat accccatttt 960
 ccatgatgtg attattacac attgcgtgcc tgtatcaaaa catctcatgt accccataaa 1020
 tatatacacc tactatgtac ccacaaaaat taaaa 1055

<210> 74
 <211> 1042
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(1042)
 <223> l1ma5

<300>
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 <304> 35
 <305> 4
 <306> 286-291
 <307> 1992-10
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 <313> (1)..(1042)

<300>
 <308> Database of repetitive elements (replibase)
 <309> 1996-01-26

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 aacagatata tgaaaaaatg ctcaacatca ctaatcatca aggaaatgca aattaaaacc 180
 acaatgagat atcacctcac acctgttaga atggctatta tcaaaaagac agaaaataat 240
 aaatgttggy gaggatgtgg agaaaagga actattgtac actgttggtg ggaatgtaaa 300
 ttagtayagc caytatggaa aacagtatgg aggttcctca aaaaaytaa aataraacta 360
 ccatatgaty cagcaatccc actwctgggt atatatccaa argaattgaa atcagtatgt 420
 ygaagagata yctgcactcc catgtttayt gcagcaytat tcacaatagc caagatatgg 480
 aawcaaccta agtgtccatc aayggawgaa tggataaaga aaatgtggta tatatacaca 540
 atggaatact attcagccat aaaaaagaat gaaatcctgt catttgyarc aacatggatg 600
 aacctggagg acattatgct aagtgaata agccaggcac agaaagacaa ataccgcatg 660
 ttctcactca tatgtggaag ctaaaaaagt tgatctcata gaagtagaga gtagaatagt 720
 ggttactaga ggctgggaag ggtagggrra ggggggrata gggagagggt ggtaawggr 780
 tacaaaatta cagttagata ggaggaataa gttctagtgt tctgtagcac cgtaggggtga 840
 ctatagttaa caayaattta ttgtatattt tcaaatagct agaagagagg attttgaatg 900
 ttcccaacac aaagaaatga taaatgtttg aggtgatgga tatgctaatt accctgattt 960
 gatcattaca cawtgtatac atgtatcgaa atatcacact gtaccccata aatatgtaca 1020
 attattatgt gtcaattaaa aa 1042

<210> 75
 <211> 1053
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(1053)
 <223> l1ma9

<220>
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 <222> (903)..(903)
 <223> n is a, c, g or t

<300>
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 <302> Prototypic sequences for human repetitive DNA
 <303> Journal of Molecular Evolution
 <304> 35
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 acaatgagat atcacctcac acctgttaga atggctatta tcaaaaagac agaaaataat 240
 aaatgttggy gaggatgtgg agaaaagga actattgtac actgttggtg ggaatgtaaa 300
 ttagtayagc caytatggaa aacagtatgg aggttcctca aaaaaytaaa aataraacta 360
 ccatatgaty cagcaatccc actwctgggt atatatccaa argaattgaa atcagtatgt 420
 ygaagagata yctgactcc catgtttayt gcagcaytat tcacaatagc caagatatgg 480
 aawcaaccta agtgtccatc aayggawgaa tggataaaga aaatgtggta tatatacaca 540
 atggaatact attcagccat aaaaaagaat gaaatcctgt catttgyarc aacatggatg 600
 aacctggagg acattatgct aagtgaata agccaggcac agaaagacaa atactgcatg 660
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 ggttaccagg ggctgggggra kgggggaaat gggaagatgt tggtaaagg gtacaaagtt 780
 kcagttatgt argatgaata agttctrvag ayctaatagt cagcatggtg actatagtta 840
 ataatactgt attgtatact tgaaatttgc taagagagta gatytttaagt gttctcacca 900
 canacaaatg gtaactatgt gaggtgatgg atatgttaat tagcttgayt gtggtaatca 960
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acaatgagat atcacctcac acctgttaga atggctatta tcaaaaagac agaaaataat	240
aaatgttggy gaggatgtgg agaaaagga actattgtac actgttggtg ggaatgtaaa	300
ttagtayagc caytatggaa aacagtatgg aggttcctca aaaaaytaaa aataraacta	360
ccatatgaty cagcaatccc actwctgggt atatatccaa argaattgaa atcagtatgt	420
ygaagagata yctgcactcc catgtttayt gcagcaytat tcacaatagc caagatatgg	480
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atggaatact attcagccat aaaaaagaat gaaatcctgt catttgyarc aacatggatg	600
aacctggagg acattatgct aagtgaata agccaggcac agaaagacaa atactgtatg	660
attccactta tatgaggtac ctagagtagt caaatcata gagacagaaa gtagaatggt	720
ggttgccagg ggctgggggg aggggggaat ggggagttak tgtttaatgg gtacagagtt	780
tcagtttggg aagatgaaaa agttctggag atggatggtg gtgatggttg cacaacaatg	840
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<302> Prototypic sequences for human repetitive DNA
<303> Journal of Molecular Evolution

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 cagcgagctt tgtggtatth taacttgccc tantcccatc cccwctctc cagctcagca 240
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 aacggggttg gagcttctca aaagycncat tcccagggaa ttgtcattat ttgacctgtc 360
 tggcggctcc ctggaagact ccattcamag ggcttgtctt tatttgacct gactcagagc 420
 tcactcagtg cgaamagcat tatacctggg ggcatttggt gaaaacawtt agaggcaawt 480
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 aaaaagctta aaaggaaaag ctggggaatg agatgtccgn aggggctttg aaaagctcca 600
 acatattcct gggaatctag aaggccacgc gcatgcccag ggctgtacac atgctcagaa 660
 aagacctaag aaggccctaa gctctcacct ctggctgacc ttgagactct gcacaagcag 720
 gaagtgaaga ctaaggcaga gttgtaaact gcctggctga gtgttgaagg tatgccccaa 780
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 acaatgagat accacttcac acccactagg atggctataa ttaaaaagac agacaataac 240
 aagtrttggc gaggatgtgg agaaattrga accctcatalc attgctggtg ggaatgtaaa 300
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 ccatatgacc cagcaattcy actcctaggt atatacccaa gagaawtgaa aacatatgtc 420
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 aacctcgaaa acattatgct aagtgaaga agccagacac aaaaggycac atattgtatg 660
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 gggtgccagg ggctgggggr aaggggaaat ggggagtgac tgctaattggg tacggggttt 780
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<223> n is a, c, g or t

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30307CNT1.ST25

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atggaatatt attcagcgat aaaaagaaat gaactatcga gacatgaaaa gacatggagg	600
aaccttaaat gcatattgct aagtgaaaga agccagtctg aaaaggctac atactgtatg	660
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 <223> 11mc3

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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aagtatttag gggtaaargg ncatsatgtc tgcaacttac tctcaaatgg ttcagraaaa	2580
aaaatnnata tayataarya gagaatgata aagcaaatgc ggcaaatgt taacaattgg	2640
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<210> 82
 <211> 460
 <212> DNA
 <213> Homo sapiens

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 <223> mer88

<220>
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 <222> (51)..(51)
 <223> n is a, c, g or t

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 <222> (244)..(246)
 <223> n is a, c, g or t

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 <222> (267)..(267)
 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

<220>
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 <223> n is a, c, g or t

<220>
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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

<220>
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 <222> (440)..(440)
 <223> n is a, c, g or t

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 tacaagttcc ctttcttgcc ttcccctgac tgtgaccag tgacattcaa acgcaccagt 180
 gaaatccctt tacgccttkt gcttgtgtsc tccaccctga ccccagkaa aggcacttgc 240
 ccgnnnngttc tctctctccc tgcctctac cngcttggtt gagcccgctc cctgggcact 300
 cctcccatcc ggccccctgc atggcatggc ntgcctccct ctctaggacc tgtgagtata 360

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ataaannctt taanttacgt ctctctgagt gcaatttctn tggccgtgct ggagtgatcc 420

ttaaagaccc caccagaggn acttccccgt ttacaacaca 460

<210> 83
 <211> 559
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(559)
 <223> mer89

<220>
 <221> misc_feature
 <222> (177)..(177)
 <223> n is a, c, g or t

<400> 83
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 ccacaacctc tgcagcaacc tgcccaggaa accaatcccc ttatctacaa ttacaacaaa 120
 saaggcagcc tgctgtaagt cagacttgca saaagtcaga ttgctctctc tagtaancag 180
 yccaggaagc caaacaacaa cctctgcaac aattggcccm aaatggccag gacttgatca 240
 ataactgmca gcttccctaa tttttgtccc tgcttccaac ttaggaccaa ccagagaaaag 300
 cyaaatatgc wccccwaacc aatcacatag gatgccctgc ttctagttag cccgcctmca 360
 gcttccccat gccacaacc tccaatcagg gcatacctga agtcttccct tttttccact 420
 ataaagcttt cccactcctc tgcttgctt tgagtctctg ccaaacgcaa gtgatggtgg 480
 ctgactccct tgctatagca agctctgaat aaatagcctt tgcttgttct catttggtg 540
 gtcttcattt atttcaca 559

<210> 84
 <211> 510
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(510)
 <223> mer9

<220>
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 <222> (97)..(97)
 <223> n is a, c, g or t

<400> 84
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ggcgttctta aaccatgaac aatagcatga gcaatctgtg ccttaagggc atgttcctgc 240
tgcagataac tagccagacc cacccttca tttcggccca tcccttcttt tcccataagg 300
gatactttta gttaatcgag tatctataga aacaatgcta atgactggct tgctgttaat 360
aaatacatgg gtaatctctg tttggggctc tcagctctga aggctgtgag gccctgattt 420
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taggctgtcc ccagtcgagc tggctctgca 510

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<210> 85
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<212> DNA
<213> Homo sapiens

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<220>
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<222> (1)..(615)
<223> mer90

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<220>
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<222> (49)..(49)
<223> n is a, c, g or t

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<400> 85
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cataaacaat ttcacagaat atcaacatca gacaaggcca ctctgtgacc atgatggatc 180
gagacaaaaa caagaccact ccgtaatcat gtctgaacac agacaaaaac atgaacattg 240
tccaagccac aaaaatgacc aagcatcccc ctctcccggc taatatgagt gactgctgct 300
tctttaccaa ttacagcttt agcctcgctc tagtcttccc' tccttctaga taagatttat 360
taagataccc aatcacagaa ttactcccgc ttcctgacag catccaatcc agagcaaagc 420
ttcgcttcct taaaccctcc cccaaatcac ctaacacaag cccaaatcct ataataagtc 480
ctttctaaca tcctcttact gagacgcccc gtggttcccc atggtgtgcg ttctccctcg 540
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<210> 86
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<212> DNA
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 <223> mer91a

<220>
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 <223> n is a, c, g or t

<400> 86
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 gcgagtgggg gctgaaatcc agcccgtgct ccgctcgcca agccgtgmt cctggtgtgg 120
 ggctgcgtct acctagagga aggggcgcct ttttctaatt cacacaaagg cgccgtatgg 180
 gctagcncctg gccctg 196

<210> 87
 <211> 184
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(184)
 <223> mer91b

<220>
 <221> misc_feature
 <222> (175)..(175)
 <223> n is a, c, g or t

<400> 87
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 acatcataga catcacagat ttgtataatg acaattttcc aacagatggc agtaaagtgt 120
 cttgaggaag gggcgctttt ttctaattca cacaaaggcg ccgtatgggc tagcncctggc 180
 cctg 184

<210> 88
 <211> 140
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(140)
 <223> mer91c

<400> 88
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acatcataga tctatgatgt gaatggcgcc ccctagagtt gtgcagtgca caacctgcac 120
aactgtacat ggcagccctg 140

<210> 89
<211> 412
<212> DNA
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<220>
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<222> (1)..(412)
<223> mer92a

<220>
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<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (207)..(207)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (218)..(218)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (225)..(225)
<223> n is a, c, g or t

<400> 89
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tcaggcttct ctccttccta caggcccctg aactttgctt gcccctaagc ctgagcaagc 120
actmaaatgc agaacgtgcc ccccttakca gcttgctcctg agaatcggct gaccacagcg 180
ggacacattt cctgtcaaac cccacnatic atgttgnttg ctcgntcccc ctcgcttgcc 240
cactgtcycc tttctactgg ttctgcttay cyctccctat aaaagaaaag cttttttctg 300
tttgattttg agacgcttgc aagttcctga ggtcggagcg ttctccctat tgcaatagtc 360
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<210> 90
<211> 636
<212> DNA
<213> Homo sapiens

<220>

<221> repeat_region
 <222> (1)..(636)
 <223> mer92b

<220>
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 <223> n is a, c, g or t

<220>
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 <222> (144)..(144)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (272)..(272)
 <223> n is a, c, g or t

<220>
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 <222> (350)..(350)
 <223> n is a, c, g or t

<400> 90
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 cccccatcc ttttgtgttc cggaacgg cttactgcaa agaaccatcc ttccccatat 120
 gacttagata agactcatgg atgnccccct tgtttacctg tgacaaggcc agacacagac 180
 cctccaaatt ccattcttt gcctcataaa tgattagctg aactgtttgt cccactgat 240
 caatckggac aaaatacctg ytaactcgac tngaccaaac tttagttaag cttctctcct 300
 tcctccaggm ccctgaactt tggaccaccc tcagcctgag ccagcatcan aatgtagaac 360
 agccccctct gagaataggc tgrcctcaag gtaaracatt ctctgatcta ctctgatctc 420
 gccacccttt catccactc cccacacct gggtctttct agccttgttt actcctccct 480
 ataaaagaaa agccctttct gcctgaactt tgagatgctt gcagatctta tggtcagagc 540
 gttctcccta ttgcaatagt ccccytcccc cmttgcaat agtccttttg aataaagtct 600
 ctccttagct aagtcggat ttgtttttat ttgaca 636

<210> 91
 <211> 554
 <212> DNA
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<220>
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 <222> (1)..(554)
 <223> mer92c

<220>
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 <222> (82)..(82)
 <223> n is a, c, g or t

<220>
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 <222> (141)..(141)
 <223> n is a, c, g or t

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 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (185)..(185)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (190)..(191)
 <223> n is a, c, g or t

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 <222> (302)..(302)
 <223> n is a, c, g or t

<220>
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 <222> (407)..(407)
 <223> n is a, c, g or t

<400> 91
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 gacttaaata agactctctg ncccttcttt ctcacgactt ccataagatc annnatgatt 180
 ccttncctgn naagaccaa cacagacctt tccccctttg cctgaaccgc ctgacaaggc 240
 cagacacgga ccctccaact tcctattctt tgtttcataa atgattagct gagattagaa 300
 gngtctgtcc ccctgaaact agctagacac agagataaac atttcctgtt cagctaaccg 360
 agacttcccc tgattgcaaa acaaccccc ctgtaaatct cccacntga aacctatcta 420
 ccccttccta taaaagtcca aggcaaaacc accctgccga gacacttcat agtcttcgga 480
 tcttgatgc tctccctatt gcaatagcct gaataaaatc atctccttam ttgtctagtg 540
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<210> 92
 <211> 397
 <212> DNA
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 <222> (1)..(397)
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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

<220>
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 <222> (109)..(109)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (206)..(206)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (213)..(213)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (257)..(257)
 <223> n is a, c, g or t

<400> 92
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 acgtaagcaa accgaaacct aactcagncg tttcttanaa ataactatna agaaaaatg 120
 aaacttaagc tyagccaatc acaarcsgcc aactaacctc tgattacata accagggact 180
 tcccacctgg acagtccaaa traggngact gcncaactgt aaccaatcaa atactttatt 240
 tgctctgctt cctcatncac cytataaaag cctttccttc aagcccctcc ggcggagccc 300
 caaaccaccc gtggtctggg gctgcccgat tcatgaatca ctgtttgctc aaataaactc 360
 tttaaaattt taatgtgcct cagtttatct ttttaaca 397

<210> 93
 <211> 134
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(134)
 <223> mer94

<400> 93
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 tattaataat tacgccagga caacaggyat aaaccaggac tgtcccaggc aaaccgggac 120
 atatggtcac ccta 134

<210> 94
 <211> 431
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(431)
 <223> mer95

<220>
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 <222> (314)..(315)
 <223> n is a, c, g or t

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 acataacaca aaacgtaagc tttacatcct tgtcagcgtg attcagtga attaaaccaa 180
 tcagctatag acaaatacgc ttaaacagct ctacttgccc taaaagaat gttaatgtat 240
 aacagccaat cacgaaaaag gtcaaaatac ttcctccttt atgctttata aactgtgcta 300
 tgactgccgt ragngagct tcttaccact ttcrgyttga rgtctcccg ttcgcgarct 360
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 tawttttgac a 431

<210> 95
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 <212> DNA
 <213> Homo sapiens

<220>
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<223> mer 96

<400> 95
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 tccttaaatt ttgcgcccta ggcgcctcac ttgcctcacc ctagtcctgg ccctg 175

<210> 96
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 <222> (1)..(434)
 <223> mer96b

<220>
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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 aatgaaaaaa tccatgacaa aatgtcaaaa tkttaaataa agatatkatc agtatgactg 180
 atntttcatt ttgcctcagg ctccagtatg agtngacact gcacagtttc tgatcctgta 240
 tttaaaattt tgatatattt ttcatcatgg atttttttgc attnattttg atttttnaaa 300
 ntattacatt aaatactatg tanctwtwtw attryattcag atattattta tcttgattnc 360
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<210> 97
 <211> 1106
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(1106)
 <223> mer97

<400> 97
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 gtgagtaatt gcataaagta caaacttcgc tgctagctct tcagtcacaa aatcactaca 180
 taaataacag atgcgcatca tgatcagtg ccaatcacat cacttctttc aaagtctgtc 240

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gaaagagggg attggccaac aaagatgaaa gtgcagcaaa gaaacgaaaa gtgataatgc	420
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gagtttttaa tgtttttgac aaaaattttt aaaggtcacg gaacaattat aattttccca	1020
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<210> 98
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 <212> DNA
 <213> Homo sapiens

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 <223> mer99

<220>
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 <222> (16)..(16)
 <223> n is a, c, g or t

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<220>
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<222> (159)..(159)

<223> n is a, c, g or t

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<221> misc_feature

<222> (223)..(223)

<223> n is a, c, g or t

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<222> (228)..(228)

<223> n is a, c, g or t

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<222> (299)..(299)

<223> n is a, c, g or t

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<223> n is a, c, g or t

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<223> n is a, c, g or t

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<223> n is a, c, g or t

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<223> n is a, c, g or t

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<223> n is a, c, g or t

<220>

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<222> (591)..(591)

<223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 trgayatcta aaaatygttt trnttaawaa craatattna gcttagtagg atttacaar 180
 aaytayagyy tataataaat attcaaacac tgaaaaacas hancanaanat tattgggtag 240
 tattcaaata acattcagat ctcttaacaa agttasgrga caacactaca cagagtcana 300
 tgtcnaaact gccaatttaa ggacttattt tgcttccaaa acyyattatt tcttggaata 360
 ccactcatag gatttgtata aagtatacna trcatataaa cntattaata tttattttat 420
 ttgcaagaat gattcaccat tagcagyaka carggccatg aacacatast tanaatggca 480
 acagctacaa gcaaggctga ctgattaatt raatngtgcc acttctctct tacgtgytcc 540
 tgtcctgggtt tctrгааааа ccraccttaa ccttcaactc catgtgcyma nrtttyctgc 600
 tcytgctttc aacttgntgt cactggattc cttcaaata gtaatgtctc tatgttgatt 660
 gttaagtttt aatttttcag agaataanat tttttcttat tttcccratt tttyaactga 720
 tttttcttgg gattcagrag aaaaatttct taagaaatgc caggaaggaa ttcccacttg 780
 gaaacac 787

<210> 99
 <211> 262
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(262)
 <223> mir

<400> 99
 acagyayagc atagtgggta agagcacggr ctctggagcc agactgcctg gggttcgaatc 60
 ccggctctgc cacttactag ctgtgtgacc ttgggcaagt tacttaacct ctctgtgcct 120
 cagtttcctc atctgtaaaa tggggataat aatagtacct acctcatagg gttgttgatga 180
 ggattaaatg agttaataya tgtaaagcgc ttagaacagt gcctggcaca tagtaagcgc 240
 tcaataaatg ttrgytatta tt 262

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<210> 100
 <211> 374
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(374)
 <223> mlt1a

<400> 100
 tgctatggac tgaatgtttg tgtcccccca aaattcatat gttgaagccc taatccccaa 60
 tgtgatggta ttaggaggtg gggccttttg gaggtgatta ggattagatg aggtcatgag 120
 ggcggggccc tcataatggg attagtgtcc ttataaaaga gaccycagag agctcccttg 180
 ccccttccgc catgtgagga cacagtgaga aggcgccgtc tacgaaccag ggaatgagcc 240
 ctcaccagaa actgaatctg ccggcgcctt gatcttggac ttcccagcct ccagaactgt 300
 gagaaataaa tttctgttgt ttaagctacc cagtctatgg tattttgtta tagcagcccg 360
 aacagactaa gaca 374

<210> 101
 <211> 390
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(390)
 <223> mlt1b

<400> 101
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 ctcagaatgt gactgtatgt ggagataggg tctttaaaga ggtaattaag ttaaaatgag 120
 gtcattaggg tgggccctaa tccaatatga ctggtgtcct tataagaaga ggaaattwgg 180
 acacagacac gcacagaggr aagrccatgt gargacacag ggagaaggcg gccatctrca 240
 agccaaggag agaggcctca gaagaaacca accctgccgr caccttgatc tcggacttcy 300
 agcctccaga actgtgagaa aataaatttc tgttgtttta gccacccagt ctgtggtact 360
 ttgttacggc agccctagsa aactaataca 390

<210> 102
 <211> 466
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region

<222> (1)..(466)
 <223> mlt1c

<400> 102
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 ctcagaatgt gaccttattt ggaaataggg tcwttgcaga tgtaattagt taagatgagg 120
 tcatactgga gtaggggtggg ccctaaatcc aatatgactg gtgtccttat aaraagagga 180
 aatttgagca cagacacgca cacggggaga aggccatgtg aagacggagg cagagattgg 240
 agtgatgcak ctacaagcca aggaacgcca argrytgcca gcaaaccacc agaagctagg 300
 aagaggcaag gaacagattc tccctcacag ccytcagagg arrccagccc tgccgacacc 360
 ttsatctcgg acttctggcc tccagaactg tgagagaata mathttctgtt gtttaagcca 420
 cscagtttgt ggtactttgt tacggcagcc cyaggaaact aataca 466

<210> 103
 <211> 506
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(505)
 <223> mlt1d

<220>
 <221> misc_feature
 <222> (238)..(239)
 <223> n is a, c, g or t

<400> 103
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 aatatgttac cttacatggc aaaagggact ttgcagatgt gattaagtta aggatcttga 120
 gatggggaga ttatcctgga ttatccgggt gggcccaatg taatcacaag ggtccttawa 180
 agagggaggc agagggtcag agtcagaaga aggagatgtg acgatggaag cagrragnng 240
 aaaactcaac gttgctggct ttgaagatgg aggaaggggc catgagccaa ggaatgcggg 300
 cagcctctag aagctggaaa aggcaaggaa acggattctc ccctagagcc tccagaarga 360
 acgcggccct gccgacacct tgatttttagc ccagtgagac ycatttttga cttctgacct 420
 ccagaactgt aagataataa atttgtgttg ttttaagcca ctaagtttgt ggtaatttgt 480
 tacagcagcm ayaggaaact aataca 506

<210> 104
 <211> 568
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(568)
 <223> mltle

<220>
 <221> misc_feature
 <222> (228)..(231)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (233)..(234)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (236)..(237)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (258)..(259)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (398)..(398)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (433)..(433)
 <223> n is a, c, g or t

<400> 104
 tgtggtaggc agaattctaa ratgmtccca atgacacctg cctcctggcg taatctcctt 60
 gagtgtgagt aggacctgtg acttgcttct agccaacgga atatggcaaa ggtgatgara 120
 trtcacgtga ttacgcgtac gtgattatgt aasattcagt ctttgmcgtc attcttgccg 180
 agagactctc ctsctggyt tgaagaagta agctgccacg tcatgagnnn ncnannaga 240
 rygccgcaag gcaagggmnt ctagagctga gagtcgccct tactgatggg cagcaagaag 300
 caagccacct cagtcctaca gccgcaaaga actgaattct gccacaacc tagtgagctt 360
 ggaagcagat cctgcccagt cgagcctcca gatgagancg cagccctggc tgacgccttg 420
 actgcagcct tgntagacct tgagcagagg acccagctaa gccgtgccca gactcctgac 480
 ccacagaaac tgtgagataa taaatgtgtg ttgttttaag ccgctaagtt tgtggtaatt 540
 tgttacgcag caatagaaaa ctaacaca 568

<210> 105
 <211> 641
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(641)
 <223> mltle1

<220>
 <221> misc_feature
 <222> (74)..(74)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (369)..(369)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (376)..(376)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (380)..(380)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (398)..(398)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (447)..(447)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (555)..(555)
 <223> n is a, c, g or t

<400> 105
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 tataatcccc tcnccttgag tgtgggcagg atctgtgaat acgatgggat atcactcctg 120
 tgattaggtt acattatatg gcaaagggtga agggattttg cagatgtaat taagggttcct 180
 aatcagttga ctttgagtta atcaaaaggg agattatcct gggtgggcct gacctaatca 240

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ggtgagccct ttaaargagg ytctagaagt cagacatgga agaagtcaga gagattcaaa 300
gcagcagaga tgctctcctg ctggccttga agaagcaagc tgccatgttt tgtggagagg 360
gccatatgnc agggantggn gagcagcctc taggagcnga agtcctcagt cctacaacca 420
caaggaaatg aattctgcca acaaccngar tgagcttgga agaggatcyt gagcctccag 480
atgagaaygc agccccagct aacaccttga tttcagcctt gtgagaccct gagcagagga 540
cccagctaag ctgtncccag attcctgacc catagaaact gtgagataat aaatttgtgt 600
tgttttaagc tgctaagttt gtggttaattt gttatgcagc a 641

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<210> 106
<211> 593
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(593)
<223> mlt1e2

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<220>
<221> misc_feature
<222> (35)..(35)
<223> n is a, c, g or t

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<220>
<221> misc_feature
<222> (97)..(97)
<223> n is a, c, g or t

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<400> 106
tgccctaadc ctggaaccta tgaatacgtt acatnacata gcaaaaggga ttttgcagat 60
gtaattaagg ttactaacct taaaataggg agattancct ggattatctg ggtgggccta 120
atctaatac atgagccctt aaaagcagag agttttctcc ggctgatagc aggaaatgta 180
aagcagaaga ggaagtcaga gagatttgaa gcatgagaag rattcgatgt accattgctg 240
gctttgaaga tggagggggc cacgatgcaa gaaatggaag aggcctctag gagctgagag 300
tggtctccag ctgacagcca gcaaggaaat ggggacctca gtcctacaac cacaaggaac 360
tgaattctgc caacaacctg aatgagcttg gaagtggatt cttccccaga gcctccagat 420
aagagcccag cctagctgac acctttgatt tcagccttgt gagaccttaa gcagagaacc 480
cagttaagcc tacctggact tctgacctac agaactgtga gataataaat ggggtgttgtt 540
ttaagctgct aaatttgttg taatttgta cacagcaata gaaaactaat aca 593

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<210> 107
<211> 541

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<212> DNA
<213> Homo sapiens

<220>
<221> repeat_region
<222> (1)..(541)
<223> mlt1f

<220>
<221> misc_feature
<222> (179)..(179)
<223> n is a, c, g or t

<400> 107
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gtatgggtcyc ytcctacatt garyyagggc trgtctgtgt gaccaataga atagggcaga 120
agtgatggcg tgtsacttcc aagaytargt cayaaawaac actgtggytt ctgcyttgnt 180
ctcttcgggc tactcactct gggggaagcc agctgccatg ctatgaagac actcaagcag 240
cctatggaga agtccacgtg gsaaggaact gaggtctcct gccaacagcc agcttcgacy 300
tgccagccat gtgagtgagc catcttgga gcgatcctc cagccccagt yaagccttca 360
gatgactgca gccccggctg acatcttgac tgcaacctca tgagagaccc tgagccagaa 420
ctaccagct aagctgctcc tarattcctg acccacagaa actgtgagat aataaatgtt 480
trttgtttta agccactaag ttttggggta atttgttacg cagcaataga taactaatac 540
a 541

<210> 108
<211> 561
<212> DNA
<213> Homo sapiens

<220>
<221> repeat_region
<222> (1)..(561)
<223> mlt1f1

<220>
<221> misc_feature
<222> (62)..(62)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (165)..(165)
<223> n is a, c, g or t

<400> 108
tgtccacaaa ttctttgata ctctctttaa gaggtggagt ctaattcccc tccccttgaa 60

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tntgggctgg acttagtgac ttgcttctaa ccaatagaat atggcagaag tgatggtatg 120
 tgacttctaa ggctaggtca taaaaggcat tgywgtagct tcctncttgc tctctctctc 180
 tctctctctt ggatcactca ctctggggga agccagctgc catgtcatga ggacactcaa 240
 gcagccctgt ggagaggccc atgtggcaag gaactgaggc ctctgcca cagccagcaa 300
 ggaactgagg cctcctgcca acagccatgt gagtgagcca tcttggaagc agatcctcca 360
 gccccagtca agccttcaga tgactgcagc cccagctaac atcttgactg caacctcatg 420
 agagaccctg agccagaacc acccagctaa gctgctccta aattcctgac ccacagaaac 480
 tgtgagagat aataaatgtt tgttgtttta agccactaag ttttggggta atttgttatg 540
 cagcaataga taactaatac a 561

<210> 109
 <211> 512
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(512)
 <223> mlt1g

<220>
 <221> misc_feature
 <222> (66)..(66)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (279)..(279)
 <223> n is a, c, g or t

<400> 109
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 tccgtntcct ctccccttga atctgggtgg gctctgtgac tgcttcgacc aatagaatrc 120
 ggtggaagtg atgctrtgtg acttctgags ccaggtyata aaarrcattg cagcttcctg 180
 cttgctggaa ckctcacact tggagtcctg agccaccacg taagaagttc arctrccccg 240
 aggccaccat gctgtgagga agcccaagct astccacana gagaaaccga gccatcttgr 300
 aagcggatcc tccagcccca gtyaagyctt cagatgactg cagcyccggc tggcgtcttg 360
 actgcgccga taccacgtgg gacagagawg aactrcccag ctaagcccag cccaaattgc 420
 tgacctatag tattgrgaac gaataaatgr ttattgtttt aagccactaa gttttggggg 480
 ggtttggttac gcagcartag ataactgaaa ca 512

<210> 110

<211> 379
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(379)
 <223> mlt1g1

<220>
 <221> misc_feature
 <222> (329)..(329)
 <223> n is a, c, g or t

<400> 110
 tgtggcagat tgtattttcc aaagatggcc acaacaatat ctcccatccc acatgctctt 60
 ctttcaatgt gacctttgcc acttcttcca tcaagagggt gggctctatgt cccctcccct 120
 tgaatctggg cagacctttg tgactgcctt gaccaataga atatggtaga agtgatgctg 180
 tgtgacttct gaggctaggt cataaaagt ccatgcactt ctgccttgct cacttgggac 240
 actcactctt ggaaccagc caccatgctg tgaggaagcc caagcagccc atggagagac 300
 ccgtggagag gatctgaggt tcctggtcna cagccccagc tgagctccca gccaacagcc 360
 agcatcaact tgccagcca 379

<210> 111
 <211> 622
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(622)
 <223> mlt1g2

<220>
 <221> misc_feature
 <222> (550)..(550)
 <223> n is a, c, g or t

<400> 111
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 tcaatgtgac tttagactc ttcccatcaa gaggtagggg tctatgtccc ctccccttga 120
 atctgggtag gcttgtgact gcttctgacc aatagagtat ggtagaagt acactgtgtg 180
 acttctgagg ctaggtcata aaaggcaatg cagcttctgc ctgccttggt cgctggaaca 240
 ctactcttg gagccctgag ccaccatgta agaagtctga ctaccctgag gctaccatgc 300
 tgtgaggaag ccaagccaca tggagaggcc atgtgtaggc attctgatca acagccctag 360
 tgtttgagtc atcccagccc aggtgccaga catgtgagtg aagaagcctt cagatgattc 420

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cagccccag ccattgagtc acccccagcc ttcgaatctt cccagctgag gccccagaca	480
tcatggagca gagacaagcc atccctactg tgccctgtct gaattcctga cccacagaat	540
ctgtgagaan gcataataaa atgggttgttt taagccacta agttttgggg tgrtttgta	600
cacagcaata gtaactggaa ca	622

<210> 112
 <211> 547
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(547)
 <223> mlt1h

<220>
 <221> misc_feature
 <222> (9)..(9)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (371)..(371)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (224)..(224)
 <223> n is a, c, g or t

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tctgggctgg ccwtgtgact tgctttggcc aatrgaatgc kgcagaagtg acggtgtgcc	180
agttccgagc ctaggcctca agaggccttg cgtgcttccg ctcnctctct tggaaccctg	240
ccaccgccat gwgaacaagc ccgggctagc ctgctggagg atgagagacc acgtggagga	300
gagccgagsc gccccagctg aggccatcct ggacmggcca gccccagcc aagatcagca	360
gagccaccaa ntcaaccagc agctgaccac agatgcatga gggagcccag ctgagaccag	420
aagaaccgcc cagctgagcc cagcccaaat tgccgacctg cagaatcgtg agctaaaata	480
aatggttgtt gttttaagcc actaagtttt ggggtggttt gttatgcagc aatagctaac	540
tgataca	547

<210> 113
 <211> 313

<212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(313)
 <223> mlt1h1

<220>
 <221> misc_feature
 <222> (6)..(6)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (39)..(39)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (43)..(43)
 <223> n is a, c, g or t

<220>
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 <222> (46)..(46)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (102)..(102)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (172)..(172)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (182)..(182)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (196)..(196)
 <223> n is a, c, g or t

<400> 113
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 ccagccttcc agccatccct accaaggtac cagacatgtg antaaagcca tcttgattg 120
 tctaggccag cccakctgcc agmtgaatac cactgagtga cccagtcaa tntayatgg 180

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ancagaagaa tcaccnagct aagccctgcc caaattcctg acccacaaaa tcatgarata 240
 taataaaatg gttgttggtt taagcyacta agttttggga tacttttcta cacatcaata 300
 gataactgga aca 313

<210> 114
 <211> 314
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(314)
 <223> mlt1i

<400> 114
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 agaccacaat gttccagatg gaggctgctc catcagcctg ggtccctgag tgaggaatga 180
 catggagcag agccccagct gacctacaat agacatgtaa catgagtaag aaataaacct 240
 ttgttggttt aagccactga gatttggggg ttatttggtta ctgcagcata acctagccta 300
 tcctgactga taca 314

<210> 115
 <211> 516
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(516)
 <223> mlt1j

<400> 115
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 tcccttgtag ctaggtgtgg ccatgtgact ttctaagttc tggccaatga gatggtaagc 180
 agaagtgatg tgtgcaactt ctaggaaatg tccttaaaga gaggggcayg cccttctttt 240
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 cttggacat gaggtgaaag ccacatgcta aggatggcag agcagcaaga tagaaggagc 360
 ctgggtccct gagactatgg agcagagctg ccataccagc cctggactgc ctaccttag 420
 acttctatat gagagagaaa taaattctat cttgtttaag ccactgttat tttgggtttt 480
 ctgttacttg cagctaaacc taatcctaac ayacca 516

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<210> 116
 <211> 435
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(435)
 <223> mlt1j1

<400> 116
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 aagcagaagt gatgtgtgtc acttccaggc ctggcccata aaacctcca tgccatcttc 180
 ctctctattc tctcttctsc tgcattctgt ggctggatgt taacaccag ggtgaccttg 240
 gaagccatat gttgaagatg gcagagcctc catcagcctg ggtccctgaa tgactgtgtg 300
 gagcagagca ccactccac cccccatca tcaattggac ttacatgag caagaaataa 360
 acttctattg tgtaagcca ctgagatttt gagggtttat ttgttacagc agctagtgtt 420
 accttaacta ataca 435

<210> 117
 <211> 417
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(417)
 <223> mlt1j2

<220>
 <221> misc_feature
 <222> (110)..(110)
 <223> n is a, c, g or t

<220>
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 <222> (328)..(328)
 <223> n is a, c, g or t

<400> 117
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 ctgactaca tttccagcc tcccttgag ttaggtgtgg ccatgtgacn tgagttctgg 120
 ccaatggaat gtgggcagaa gtgatgtatr ccacttccag gcctggccca taaaaccctc 180
 caatayataa tcctctctct ctctttcttc mtcbrcctggc tggatgcaga gaatccaaag 240
 gactccaagg atggtagagc cacaagatgg aaggagcctg ggtccctgag tcactacttg 300

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gaggagagcc actcagcaga aacacccnac cagaaacca cactgaattg taacatgagt 360
gagaaataaa cttttattgt gttaagccac tgagatttgg gggtttttgt tacagca 417

<210> 118
<211> 476
<212> DNA
<213> Homo sapiens

<220>
<221> repeat_region
<222> (1)..(476)
<223>

<400> 118
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gacccaagct gggccaatga gagttctcaa gccctgggac ttttgctgga actattggga 180
aagagrtggt ctttttctcc tggggttgct aagctggtag gatgtaagcc tggagctgct 240
ggtggtcatc ttgccaccac rtggagagag cctgcctgag aatgaagcca acacagagga 300
aagcagagcc aagagatgga gagagacaga ttcctgatga catcatttga gcacctggat 360
ccagccatgc ctgaagccag atctatgcta cccctggact tttcagttac atgagccaat 420
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<210> 119
<211> 356
<212> DNA
<213> Homo sapiens

<220>
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<222> (1)..(356)
<223> ml11

<220>
<221> misc_feature
<222> (120)..(120)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (136)..(136)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (159)..(159)
<223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (194)..(194)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (273)..(273)
 <223> n is a, c, g or t

<400> 119		
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ttaggaatgg gcatgtgaca caattctggc caatgagaca tgaggggaag tctgctgggn		120
gggcttctgg aaaagntttt cttttttaat taaaaaatnt aaagagaaaa catgtcctct		180
tttcttgctc ttgntttgga tgttgttttg tgaggatgtg atgcttgag ctgtggcagc		240
catcttgcaa ccatgaggcg acaagcctga gangraaagc caacacactg aggatggcag		300
agcagaaaga taaaaagaac ctgggtcctt gatgatatyg ttgagctgct gaatca		356

<210> 120
 <211> 1338
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(1338)
 <223> mlt1r

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 <222> (533)..(533)
 <223> n is a, c, g or t

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 <222> (625)..(625)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (637)..(638)
 <223> n is a, c, g or t

<220>
 <221> misc_feature

<222> (642)..(642)
 <223> n is a, c, g or t

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 <222> (784)..(784)
 <223> n is a, c, g or t

<220>
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 <222> (803)..(803)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (814)..(814)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (1031)..(1031)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (1129)..(1129)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (1192)..(1192)
 <223> n is a, c, g or t

<400> 120
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 ggctcagaaa ggaagwggag agctatagag aaagctcccg tcgtcttaga gaatacaaaa 240
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 cagacggaaa tgagggagat gttattgaaa attggaggaa aggtgatcct tgttataaag 360
 tagcaaagaa cttggctgaa ttgtgttcat gtcctagggc tttatggaaa gtagaacttg 420
 yaagtgatga actkggatat tcagctgagg aaatttctaa gcaaagtgtt gagggcgcaa 480
 cctgacttct cctaactgct tatagtaaaa tgtgagagac ataaagatgg aantgttgag 540
 taaaaaggaa ccagaacgta aagatttgga aaattctcag cctgatcatg taacagaaan 600
 nncaatagcg ttctctggaa agaanaccaa ggatgtnncc gngcaaccgt ttgctaaaga 660

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gattagrattc gtgactcgtg ggtccaatca accatctcag caraarccar gaatagagat	720
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tggactraag ggracagaga cgagaaaaaa tgaaggaagr gtggcagacc gaaggtgggg	900
ctgtctcgtt tcagagcatg gkgtcacccc agcgggcccga gaagatgaat ctcaggactc	960
agaggcatta gcctccagcc ttaagatcta atgaagtttg ccctgctggg ttttggaactt	1020
gcttgggacc ngtgactcct ttcttyyytt cyatttctcc cttttggaat gggaatatct	1080
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gatgyrgrtg atatttcgct gagattgtgg actaagagtt ggtgctggaa ggggttagac	1260
attggggaga tgttgctatg ggatgcaggg attttgcattg tgagaaggac atgattatgg	1320
ggggagcgga gggcaaac	1338

<210> 121
 <211> 444
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(444)
 <223> mlt2a1

<400> 121	
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gggtgtgtct gtgaggggtgt tgccaaagga ggttaacatt ggactcagtg ggctggggag	120
aggcagaccc acccttaatc tgrgtgggag cmatcyaatc agctgccagc gtggctagaa	180
tataaagcag gcagaaaaat gtgaaaagag agactggcct agcctcccag cctacatctt	240
tctcccgtgc tggatgcttc ctgcccttga acatcagact ccaagttctt cagttttggg	300
actcggactg gctctccttg ctctcagct tgcagacggc ctattgtggg accttgatgat	360
cgtgtgagtt aatacttaat aaactcccct ttatatatat ctattcyatt agttctgtcc	420
ctctagagaa ccctgactaa taca	444

<210> 122
 <211> 549
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> mlt2a2

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<400> 122
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ggcagaccca ccctcaatct ggggtgggcac catctaata gctgccagca cggctagaat    180
aaagcaggca gaagaatgtg gaaggagcag actkgctgag tcttctggcc ttcattcttc    240
tcccgtgctg gatgcttcct gccctcgaac atcagactcc aagttcttca gcttttggac    300
tcttggaactt acaccagtgg tttgccaggg gctctcaggc ctttgccac agactgaagg    360
ctgcaactgt ggcttcccta cttttgaggt tttgggactc agactggctt cttgctcct    420
cagcttgca gacggcctatt gtgggacttc accttgatgat cgtgtgagtc aatactcctt    480
aataaactcc cyttcatata tacatctatc ctattagttc tgtccctcta gagaaccctg    540
actaataca                                         549

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<210> 123
<211> 503
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(503)
<223> mlt2b2

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<400> 123
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gcggaactgag taaagaagat tgccctcacc aatgtgggag ggcattcatc aatccgttga    180
gggcctgrat agaacaaaaa ggcagaggaa ggggtgaattt gctctctctc cttgagctgg    240
gacatccatc ttctcctgcc cttggacatt agaactccag gttctcgggc cttcggacty    300
cgggacttgc accagcagcc cccagattc tcaggccttc ggactcggac tgaryyacgc    360
caccggcttc cctggttctc cagcttgca gacggcatatc gtgggacttc tcagcctcca    420
taatcacgtg agccaattcc cctaataaat ccyctctatc catcctattg gttctgtctc    480
tctggagaac cctgactaat aca                                         503

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<210> 124
<211> 450
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(450)

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<223> mlt2c2

<220>

<221> misc_feature

<222> (260)..(260)

<223> n is a, c, g or t

<400> 124

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acaycagtct agatgttgct gtgaaggat ttttagatg tgattaacat ttayagtcag	120
ttgactttaa gtaaaggaga ttaccctcca taatgtgggt gggcctcatc caatcagttg	180
aaggccttaa gagcaaagac tgaggtttcc cgaggaagaa gaaattctgc ctcaagactg	240
caacgtggaa atcctgctgn tttwccagcc tccaagcctt cggactcgaa ctgcaacatc	300
arctcttscc tgggtctcca gcctgccggc ctaccctgca gatttcggac ttgccagcct	360
ccacaatcgc gtgagccaat tccttaaaat aaatctctct ctacacacac cctattggtt	420
ctgtttctct ggagaaccct gactaataca	450

<210> 125

<211> 388

<212> DNA

<213> Homo sapiens

<220>

<221> repeat_region

<222> (1)..(388)

<223> mlt2d

<220>

<221> misc_feature

<222> (243)..(243)

<223> n is a, c, g or t

<400> 125

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acattagtct ggggtgtttct gtgaagggtta ttttttggat gagattaaca tttaaatacgg	120
tagactgagt aaagcagatt accctcccta atgtgggtgg acctcatcta atcagttgaa	180
ggcctgaatg gaaaaaaagg gctgaccctc ccccaagtaa gaggaaattc tgctgcctg	240
atngtcttcg aactggaata tcagctctgc ggattttgga cttgccagcc tccataattg	300
catgagccaa ttccttataa taaatctatc tactctctct acacacaccc tattggttct	360
gtttctctgg agaaccctga ctaataca	388

<210> 126

<211> 622

<212> DNA

<213> Homo sapiens

<220>

<221> repeat_region

<222> (1)..(622)

<223> mlt2e

<220>

<221> misc_feature

<222> (26)..(26)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (35)..(35)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (332)..(332)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (344)..(344)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (389)..(389)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (440)..(440)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (452)..(452)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (575)..(575)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (608)..(608)

<223> n is a, c, g or t

<400> 126

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tccctgtatg	gttctgggtt	agagttggcc	aaagatgaaa	ttgtggaaga	tttggaaggc	120
agaagtgaag	cagcagccat	tacactctga	aggtcatcat	tggttasagg	cagtgagaga	180
tgGCCagatg	cagaggtgcc	caggaggttc	cagcttgtcc	tcactctccc	ctgctcyata	240
tccagctctt	cttcctgacc	actggccctg	ctgaccaaca	gcarccccag	gcccaccacc	300
agatgcttgg	ctgcaaactc	acagaggtag	tngccacaca	gagncaacaa	ctttccatag	360
agttctccac	cagctcccct	tcatggtcnc	acttyagcgg	ctggatatgc	ttagcttcaa	420
atttccccac	aagctccagn	ctcattcaac	tncgccagag	ctggtttagtg	accctttttc	480
tgatccttca	actccccctt	ccagaccttc	acttccccag	ctcctcccac	aattgtataa	540
ggTctaattc	ctataataaa	tcccttattc	catanatact	acatagtggc	tctgcttccc	600
tgactganac	ctgactaata	ca				622

<210> 127
 <211> 661
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(661)
 <223> mlt2f

<400> 127	
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ggcggaagtg	aagcagcagc cattttgttt tctgtgctcg gagaggtcag agtcagcagg 180
cgctgttgca	gctcacacac gttgtcgctk atctgctggc tcacctcggt ggcgtggggc 240
agcagccggg	cccgcagctg ctccascctc ccctggatcc tccttcagct tctccgactc 300
ctggggccagg	tgtgtgtkta gctccgtgac gaagggcgcc agcttctcct gcaggacacc 360
cacatcatcg	aggtcggagg cagtgagaga ctgacatggg ttccagtttg tcctcgtggg 420
ttccagctca	tgcttgtggg ttccagcttg tccttgctct cccccacttt atatccatct 480
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gccttacaga	gactgcttaa ccagctccca caattgcgta aggtcaaadc cctataataa 600
atctcttatt	atatatatct cctagtgggt ctgcttctct gattgaaccc tgactgatac 660
a	661

<210> 128
 <211> 281
 <212> DNA

<213> Homo sapiens

<220>

<221> repeat_region

<222> (1)..(281)

<223> msr1

<400> 128

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acccccagc ccctcctccc tcagactcat gagtccagac cccagcccc tcctccctca 180

gacccaggag tccagacccc cagcccctcc tccctcagac ccaggagtcc agacccccag 240

cccctcctcc ctcagacca ggagtccagg cccacccct c 281

<210> 129

<211> 426

<212> DNA

<213> Homo sapiens

<220>

<221> repeat_region

<222> (1)..(426)

<223> msta

<220>

<221> misc_feature

<222> (274)..(274)

<223> n is a, c, g or t

<400> 129

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tagcaccatc cccttggtgc tgyctcgtg atagtgagtg agttctcatg agatctggtc 180

gtttaaaagt gtgtggcacc tccycctct ctctcttgct cctgctctcg ccatgtgacg 240

tgctgtctcc cccttcgcct tccgccatga ttgnaagctt cctgaggcyt cccagaagc 300

cgagcagatg ccagcgccat gcttcctgta cagcctgcag aaccgtgagc caattaaacc 360

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aataca 426

<210> 130

<211> 465

<212> DNA

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<220>

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<222> (1)..(465)

<223> msta1

<220>

<221> misc_feature

<222> (143)..(143)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (227)..(227)

<223> n is a, c, g or t

<400> 130

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aatagattaa tgccctcctt tgnngtgagg atgagtgagt tctcactcta ttgtgggaat	180
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accttcygcc atgagtggaa gcagcctgag gccctcacca gatgcagatg ctcgcaccat	360
gctttttgtc cagccagcag aaytatgagc caaataaacc tcttttcttt ataaattacc	420
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<210> 131

<211> 1651

<212> DNA

<213> Homo sapiens

<220>

<221> repeat_region

<222> (1)..(1651)

<223> mstar

<400> 131

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agatgagggg aagtttgga cttcttagag acttggttaa tggttggtgac caaatgctg	180
atagtatat ggacagtaag ggccaggctg acgaggtctc agatggaaat gaggaactta	240
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cggaagaaat ttctaagcag caaagcggtc aagatgtgac ctggctgctt ttaacagctt	420
acagtcatat gcgagagcaa agaaatcact taaagttgga atttatattt aaaagggag	480
cagagcgtaa aagtttgga aatttgcagc ctggccatgt gatagaaaag aaaaaccgct	540

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ttcgtggggc agggccaggg ccccgctgcc ctgtgcagcc tcgggacact gctccctgca 780
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aaggaacttg cttgtctca gatgagactt tggactttgg acttttgagt taatgctgga 1560
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gacgtgagat ttgggggaac caggggcaga a 1651

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<210> 132
<211> 405
<212> DNA
<213> Homo sapiens

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<223> msc

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<223> n is a, c, g or t

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<223> n is a, c, g or t

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<220>

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<221> misc_feature
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 <223> n is a, c, g or t

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 aatggattaa tggattaacg tattaatgga ttaattgggt atcacgggag tgggatcggt 180
 ggctctatca taaaarycat tttgnctctc gnrtgngccc cttcttgccc tttcacgcct 240
 tccgcatgt tatgacagag cacaaggccc tcaccagaaa ccagatgcag ccgcatgat 300
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 ccagtctatg gtattccgtt aaagcagcac gaacggacta agaca 405

<210> 133
 <211> 630
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(630)
 <223> ors1

<220>
 <221> misc_feature
 <222> (461)..(461)
 <223> n is a, c, g or t

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 yatctttgaa tycyyaaaas ttagctcact gtgtgctcaa acgtgtattg aatgacagtt 120
 gctatatttg aggachacat agattttggg gaagacggac aggcacacta gcagaaccat 180
 acgaaggcca ggatcagtc taccagggc tgcattatga cttgtgggcc ctgagcactt 240
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 ggtataaaga tgagaatata atccaggctg aattaaaaca ttttcttaga ctctaaaatt 360
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 <223> SAR

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 <213> Homo sapiens

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 <223> satrl

<400> 142
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 cccccccccc ccccsyaca cccccctgt gatattgttc gtaatatcca gggggggaga 180
 ggagaggatg atattactcc caatatcaca ggggggtgtac accccccctg tgatattggt 240
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<210> 143
 <211> 455
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(455)
 <223> sn5

30307CNT1.ST25

<400> 143
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 <212> DNA
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<220>
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 <222> (1)..(1640)
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<210> 145
<211> 2111
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(2111)
<223> tarl

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30307CNT1.ST25

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<210> 146
<211> 364
<212> DNA
<213> Homo sapiens

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<223> n is a, c, g or t

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 taca 364

<210> 147
 <211> 1580
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(1580)
 <223> thelbr

<400> 147
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 aaaatgtggg aaagtttgga acttcctaga gacttggtga atggctttga ccaaaatgct 180
 gatagtgata tggacaataa agtccaggct gaggtggtct cagatggaga tgaggaactt 240
 gttgggaact ggagcaaagg tgactcttgt tatgttttag caaagagact ggcggcattt 300
 tgcccctgcc ctagagattt gtggaacttt gaacttgaga gagatgattt agggatatctg 360
 gcggaagaaa tttctaagca gcaaagcgtt caagaggtga cttgggtgct gttaaaggca 420
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 <213> Homo sapiens

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 <211> 2718
 <212> DNA
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 <223> trigger2

<220>
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 <222> (1061)..(1061)
 <223> n is a, c, g or t

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<210> 150
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 <213> Homo sapiens

<220>
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 <222> (1)..(2302)
 <223> trigger5

<400> 150						
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ctctgtcgcg	atgctgggca	gcgrcagtga	rccgcagyt	ccagtcagcc	gcgcgatcac	180
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tgagaagaag	aggaaggcaa	ttactcttga	gatgaaactc	aagataatcg	ccctgcatga	360
agacggcaag	ggattaatgg	ccattgcaca	agagttggga	ctttcacgat	ccatgatcct	420

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caaccatctt aaagaataag aagtgaatca gtgaggcagt gaaatcgtca gcattagtta	480
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tgtggatgta agaccagata tcgaaggcca tactacttac tgatgatgcc agctagggca	600
agaagtgttt ttgattacac taaaagagtg aatgaatgtg tcgatgatcc tattatacac	660
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aaccatactg ttttyactt tcagtacagt attcartaaa ttacatgaga tattcaacac	2100
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aaatgcattt tcgacttaca atattttcaa cttacgatgg gtttatcggg atgtaacccc	2280
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<210> 151
 <211> 2806
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(2806)
 <223> zombi

<400> 151
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 cacagtcaaa acgcagggtgc acaacacaca gtttattcgg cgtccccaag ggaaaaaaga 180
 ccctcccagc ccccttcagc tgcggtatat cttttccgcg cacaccaga ttcccccatg 240
 caagcacgcc cacaaggggt aataaaatgg cacgtgtgca ggctggacac accaacggca 300
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 ttgcttattc tctgctctgt ggtgtaaaga tattgttgaa aatgtcaaaa aggcctgtag 420
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 aaaagtcaag ctgttggaga aactggacag tgggtgaagt gtgaaacgtc ttacagaaga 540
 gtatggtggt ggaatgacca ccatatatga cctgaagaaa cagaaggata aactgttgaa 600
 gttctatgct gaaagtgatg aacggaagtt aatgaaaaat aaaaaaacac tgcataaagc 660
 taaaaatgaa gatctcgatc gtgtattgaa agagtggatc cgtcagcatc acagtgaaca 720
 catgccactt aatggtacgc tgatcatgaa acaagcaaag atctgtcaca atgaactgaa 780
 aattgaaggg aactgtgaat attcaacggg ctgggttgag aaatttaaga aaagacacgg 840
 cattacattt ttaaagattt gtgggtgataa agcatctgct gatcatgaag cagcggagaa 900
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 taatgctgat gaaacatcac cgttttgggtg ttattgcccc agaaagacac tgactacagc 1020
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 gatcaccagg gacatctttt ctgattgggt tcacaaacat tttgtaccag cggcttgtgc 1260
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 ttctgctcat cctccagctg aaattctcat caaaaataat gtttatgcca tgtactttcc 1380
 cccaaatgtg acttcattaa ttcagccatg tgaccagggt atcttttagat caatgaagag 1440
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ggaaggtttt caaaaggagt ttagcatgaa ggatgccgta tatgctgttg ccaacgcttg 1560
gaacacagtg actaaagaca cagttgtgca tgcctggcac aacctctggc ctgcgactgt 1620
gttcagtgat gatgatgaac caagtggatga ctttgaagga ttctgtatgt caagtgagaa 1680
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cacaaacttt gtttcatgca caaaattatt aaaaatattg tataaaatta ctttcaggct 2640
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ccaagatatc tcattatgta tatgcaaata ttccaaaatc tggaaaaaaa tccagaattc 2760
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<210> 152
<211> 234
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(234)
<223> zombi_a

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ttcagatttg ggatgctcaa ccggtaagta taatgcaaat attccaaaat ccaaaaatcc 180

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gaaatccgaa acacttctgg tcccaagcat ttgggataag ggataactcaa cctg

234

<210> 153
 <211> 468
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(468)
 <223> zombi_b

<220>
 <221> misc_feature
 <222> (145)..(147)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (149)..(149)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (153)..(154)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (157)..(157)
 <223> n is a, c, g or t

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 <222> (159)..(159)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (166)..(166)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (169)..(169)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (177)..(177)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (182)..(182)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (187)..(187)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (198)..(198)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (200)..(200)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (210)..(210)
 <223> n is a, c, g or t

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 tttgagcacc aacatgatgc cacaagtgga aaattccaca cctgacctca tgtgataggt 120
 cacagtcaaa ayacaatcaa gactnnncna gcnnctncng ttgctnttnc tgccagncaa 180
 cnacagnttg tgcacctngn tggcaragan actgacacat ttgctttctk atggttcagt 240
 gtacacaaac tttgtttcat gcacaaaatt atttaaaata ttgtataaaa ttaccttcag 300
 gctatgtgta taagggtgat atgaaacata aatgaatttc gtgttttagac ttgggtccca 360
 tccccagat atctcattat gtatatgcaa atattccaaa atccaaaaaa atctgaaatc 420
 caaaacactt ctgggtccca gcatttcgga taagggatac tcaacctg 468

<210> 154
 <211> 333
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(333)
 <223> zombi_c

<400> 154
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 tttttataat ttgaaactca tttggcagca aaacctgacc tgaactgata tgaggctatt 120

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tatagtcttt atttatccca cttagtgtga atattcatat atttcactgc agaaatatta	180
atgtgtttga ttataggggtg ctgccccaga cccactggg ggtgttatat aatatatagt	240
atatgcacta tattaccttt ctaaaatcta aaaaattctg aattctgaaa cacatctggc	300
cccaaggatt tcagataagg gattgtggac ctg	333

<210> 155
 <211> 290
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(290)
 <223> mer35

<400> 155	
gatgtggcgt ttgagtggac acgggggaag aaacaagtaa tatgaataac atggtgagac	60
agaaagagtt gtggacagag ctgtgggaaa tatgagagat aaggagagag atactgaaaa	120
gagcgttaag agagatgaag ataggggtgtc tggcccatga aggccctcgt gaagagcaat	180
gctgaataga tgaatgaacc tcaatgccca gcagtgggtgg gatgaaaagg ggatcctgtg	240
cagaaaccac actacccatc agagaagcaa ctctgctcgt ttccccttga	290

<210> 156
 <211> 693
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(693)
 <223> mer39

<220>
 <221> misc_feature
 <222> (57)..(57)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (63)..(63)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (79)..(79)
 <223> n is a, c, g or t

<220>

<221> misc_feature
<222> (83)..(83)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (144)..(144)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (151)..(151)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (161)..(161)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (193)..(193)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (209)..(210)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (230)..(230)
<223> n is a, c, g or t

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<221> misc_feature
<222> (477)..(477)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (610)..(610)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (628)..(629)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (659)..(659)
<223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (683)..(685)
 <223> n is a, c, g or t

<400> 156
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 agnatatctt ttgttgaant atntggcttt ttgtccttgg ttcagttagc agctttggaa 120
 cagcttcaga gcggtaaagg tganggacag ncttttgta naatgttggg gcgctctaag 180
 cctcagaagc agncctcagr aaacagaann tcattttctg accttctctn gccctctaag 240
 cwtymcccg ctttctgtct trgrgctgsc cgtaaagaaa ttwtctgacc tatctcgtct 300
 gatwgtaggt cataagaccc tcattccaga aggggtcccg ccctataccc gggaggaagg 360
 aatgccgcac agakagacca agaagaatac gaacagacaa gccttgctgg gtttyccacac 420
 ycagtytatc accattagat catwcccctt ttgtcyaatc acatttctgc gcagctntcc 480
 attcttcac aaatctaarc ataaaaatag agttttccct gagtmittgk gtcttcattt 540
 ctgaaggctc ycatgtcaca taaaactttg attaaataaa tctrttatgc ttttctcttg 600
 ctaacctrtn ttttattata ggagtgttng ccgtgaccct tatgatgggt agggaaggna 660
 tcacacctt ctgcccctac agnnntaatg ccc 693

<210> 157
 <211> 581
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(581)
 <223> mer39b

<220>
 <221> misc_feature
 <222> (321)..(321)
 <223> n is a, c, g or t

<400> 157
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 aaactagaat ctctcttccc caaggcaggt catagaaacc agaacycctt tcctscaaag 180
 ccagccataa aacctaaaaa tattactcta actttccctc cacctttctg tgtaaaaact 240
 ggccataaag aaattatctg acctaccttg tttgattgta ggtcataaga ccccatctcc 300
 agagagggcc ccgcccata nccggaagga atgcgtgctc agagaagcca agaagaatct 360

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agacagacag gccttgctgg gtttccccac tcagctcatt agcattrgat catrgccttt 420
ttgtccagtc atatttctac acggctgtcc attctttgtt gaacctaaagc ataaaaatgg 480
acaattttcc ctgtatcttt gggctttcat tctgaaggct cccgtgtata cagtgtatac 540
atgttarata aatgtatatg cttttctcca ttattctgct t 581

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<210> 158
<211> 554
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(554)
<223> mer41a

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<400> 158
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tgaracctac tgggctgcat tcccagacgg ttaaggcatt ctaagtcaca ggatgagata 120
ggaggtcggc acaagatata ggtcataaag accttgctga taaaacaggt tgcagtaaag 180
aagccggcya aaaccaccca aaaccaagat ggccacgaga gtgacctctg gtcgtcctca 240
ctgctacact cccaccagca ccatgacagt ttacaaatgc catggcaacg tcaggaagtt 300
accctatatg gtctaaaaag gggaggcatg aataatccac cccttgttta gcatatcatc 360
aagaaataac cataaaaatr ggcaaccagc agccctcggg gctgctctgt ctatggagta 420
gccattcttt tattccttta ctttcttaat aaacttgctt tcactttact ctrtggactc 480
gccctgaatt ctttcttgca cragatccaa gaaccctctc ttggggctctg gatcgggacc 540
cctttcttgt aaca 554

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<210> 159
<211> 635
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(635)
<223> mer41b

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<400> 159
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ggaggtcggc acaagatata ggtcataaag accttgctga taaaacaggt tgcagtaaag 180
aagccggcya aaaccaccca aaaccaagat ggccacgaga gtgacctctg gtcgtcctca 240

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ctgctcatta tatgytaatt ataatgcatt agcatgctaa aagacactcc caccagcacc 300
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 gaggaaccct cagttccggg aattgcccgc ccctttcctk gaaaaytcat gaataatcca 420
 ccccttgttt agcatataat caagaaataa ccataaaaat rggcaaccag cagccctcgg 480
 ggctgctctg tctatggagt agccattctt ttattccttt actttcttaa taaacttgct 540
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<210> 160
 <211> 554
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(554)
 <223> mer41c

<400> 160
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 ttaagggAAC agattaataa tgtttactaa acagaccag acttgggagt gtccagatat 180
 cccgatattc kgagaacaga ggcattccta atttckcttt aaagataata atattgattc 240
 ttgcaaaaka tagtaattaa gcaaagatkr rcaatccttt gtcacaagcc cttgtagcag 300
 agcacatctc ccccgtaatg ttctttggct ttgttatcct atatataaac aagcattgta 360
 cctagggtgg acgcsttcct cctsttgctt tcgggaacgc cctgctctgt ctatggagta 420
 gccgttcttt cactmcttta ctttcttaat aaacttgctt tyactttaca ctgtggaatc 480
 accctgaatt ctttcttgca tgagatccaa gaaccctctc ttggcggttg gatcaggacc 540
 cctttcttgt aaca 554

<210> 161
 <211> 557
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(557)
 <223> mer41d

<220>
 <221> misc_feature
 <222> (407)..(407)
 <223> n is a, c, g or t

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<400> 161
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ttgaggaagc agcttgawaa tacctacaag gacacactcc tacaacaaca gaaagtccag 180
atgtcccaat acccataaca atatatgctt tcaagataat tatagtcatg ctttgatgta 240
cttacgcact aaaatgtcaa agatagtttt ctttaaataca atatamtaat aaattttgtc 300
atgctgtcag cccacccgca cgtaggcaca gcttagttta gtctttacat agacaagact 360
cctatataag aaaagtttaa gacagagatg gcgcgttcct ccgcctnctt tccggggacg 420
ccctactctg taatggagta gtttttaata aacttgctct tctcactgta ctccgcaact 480
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aaagttaaat ttataaatta ggcacagtaa gagattaaca ataactaata aaatagaaca	180
attataacaa tataccgtaa taaaagttat gtgaatgtgg tctctttctc tcaaaatatc	240

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 <223> mer44b

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 ttattgtact gtactcaccc ttnttcttct tgtgatgatg tgagatgata aaatgcctat 300
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 rggatggagc aggacagtgt gagatttcas ccatcatgct actcagaaca atacacaatt 600
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<223> mer44c

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<223> n is a, c, g or t

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<223> n is a, c, g or t

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<223> mer45

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<210> 168
 <211> 1037
 <212> DNA
 <213> Homo sapiens

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 <222> (1)..(1037)
 <223> mer45b

<220>
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 <222> (495)..(495)
 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <222> (387)..(387)
 <223> n is a, c, g or t

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<223> mer45r

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<222> (41)..(41)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (52)..(52)

<223> n is a, c, g or t

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<223> n is a, c, g or t

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<223> n is a, c, g or t

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<222> (686)..(686)

<223> n is a, c, g or t

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<223> n is a, c, g or t

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<223> n is a, c, g or t

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<222> (761)..(761)

<223> n is a, c, g or t

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tttaacttat aaaatgtaat agggataata gtgatacata aataaattat aacaacataa 180

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<223> mer48

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yytgccccgt cctcacttggt ggctgacgcc attttaggcc tcagcccgcc tgcactcagg 300
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<210> 172
<211> 923
<212> DNA
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<221> repeat_region
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<223> mer49

<400> 172
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cctccttcga	agtgcctgtc	tctggtcttg	gccagaggct	acgcttccca	gcctgcggga	840
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<210> 173
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 <213> Homo sapiens

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 <223> mer4a

<400> 173	
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taaataagat	agctacaaag
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aattccttgc	ggacctcaag
180	
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awtgyaaatg	grtacaggac
240	
aaaggctacag	aactgaaagt
catccctctg	ctcacctgag
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tgtaaaaaatg	cagattcact
gagccagact	maattgtgta
360	
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rgactcaaaa	gaatgmagcc
wtttgtctct	tatctaccta
420	
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cgagttgtcc	cgcctttcca
gaccgaacca	atgtacatct
480	
tacatatatt	gattgatgtc
tcatgtctcc	ctaaaatgta
taaaascaag	ctgtrccccg
540	
accaccttgg	gcacatgtcg
tcaggacctc	ctgaggctgt
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600	

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<210> 174
 <211> 611
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(611)
 <223> mer4b

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 ggacacgcct cattataccy tccyycttct ggaattcagg cacaactgac cagcattaac 180
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 ctanctgaar gcttcatctg cacgataaaa cttgggtctcc gcaaccctt atntcataac 300
 ccggacattc ctttccattg atctyaantc ttcaaccart tgccaatcag aaaatctttg 360
 aatctaccta tgacctggaa gccccgcctt cgagttgtcc cgcctttccg gaccgaacca 420
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 gctgtrcccc gaccaccttg ggcacatgtk gtcaggacct cctgaggctg tgtcacgggt 540
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 ttgggttcac a 611

<210> 175
<211> 2454
<212> DNA
<213> Homo sapiens

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<223> mer4bi

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<223> n is a, c, g or t

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<223> n is a, c, g or t

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<223> n is a, c, g or t

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<223> n is a, c, g or t

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<222> (380)..(380)
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<222> (419)..(419)
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<223> n is a, c, g or t

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 <223> n is a, c, g or t

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 gntagaagtt atttaaaagt tgtttcaaaa taaagggaaa aaattatata aataaaaata 180
 aatgrataaa gagaaaaata aaaaggtggg aaatgagaaa ctttgactc ctgggtggcc 240
 ahgtggtcac ccatagtata gagctgcagc tgdgctgtgt tcagttacta aaggtaaaag 300
 ttaccagtga aatttagaga tggatcatac tcccaggagg ttggttcact ggatgcataa 360
 ggaaatgcaa actaataagn caaaaagcaa atatgcaatc tcttggtat tgttatctnt 420
 aatagctaaa aaaaaataa aagagtgtg ggttgggtct tgatgtgga ccaagctcag 480
 atgtvgttct gtctnagctc aggccactag cctcaaagct acccacaaaa agaaaaatta 540
 agccaggaca acaaaaggta cctctgagac ctgtgggttac caagaagata gtcaatrtgg 600
 gggaagggca aaaccaagta actattaaaa ccagagggtta taatgtaaag gaattgttcc 660
 atttttaga ttggtatcat cagcttcctg aaaaacctt actaaaatgg attgtgagaa 720
 taactaattt arggacagta tctttrrrtt taaatgctgc agaatrgaag agcatgtttg 780
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 aactgtttaa gaagccttat caaatttgct gtccctcatg ggtcttacag atgcttaata 1200
 aaacattaga wtaattaaca acaaaagaaa atggaaaagg aaaaggaggt caaaggactc 1260
 accccagaag sgtgggtgaa atctttaaat gggtattaag aaatggaata aattaaaatt 1320
 gatgggggta aaacaaaggt ctttacaaca ctatcaaagg ttgggtggac caaagggagc 1380

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<210> 176
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 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(465)
 <223> mer4c

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ataaaaagg	t	aaatatctcc acaggtagct actctatgtt caccttatct tatgtaaagt 180
gccgatttac	tgagcacgag	acgaatacat aattgactat tcccctacct gctccttttc 240
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atgtttctgt	gatttcgtgt	ttctttctcc cgggcatgtc cttaaccttg gcaaaataaa 420

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465

<210> 177
 <211> 1017
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(1017)
 <223> mer4d

<220>
 <221> misc_feature
 <222> (214)..(214)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (654)..(654)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (890)..(890)
 <223> n is a, c, g or t

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 aaaacagaga tcataagact gacaaaacag actntttgta gcaataagat accacgagga 240
 cgaagytctk atttttttat cttgccc aaa ttcctatgta aggggtctag ggagtcgcgc 300
 cttacaaacc atgaattctc attagatggg ttttattaaa ccctgtatat cgtgacttaa 360
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<210> 178
 <211> 780
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(780)
 <223> mer4e

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 <222> (31)..(31)
 <223> n is a, c, g or t

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 <222> (404)..(404)
 <223> n is a, c, g or t

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 aggtctgaat aggaaacatt tgtcatctat tstctctaag ggcngccact atgagacttc 420
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 caccttgggc acatgttctc aggacctcct gagggctgtg tcacgggcca tggtcactca 720
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<210> 179
 <211> 6388
 <212> DNA
 <213> Homo sapiens

<220>

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 <223> mer4i

<220>
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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

<220>
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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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<210> 185
 <211> 1755
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(1755)
 <223> mer52a

<400> 185						
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<210> 186
<211> 1746
<212> DNA
<213> Homo sapiens

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<220>
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<222> (1)..(1746)
<223> mer52b

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gcctctcccc gctcccggg cccgctccgc aggtcagaa gtgcctgctc ccactgcctg	420
gcttctccct gctgccggca cccgctccga tctcggagca aagttggggc cgagcccggg	480
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atgaca	1746

<210> 187
 <211> 1278
 <212> DNA
 <213> Homo sapiens

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 <221> repeat_region

<222> (1)..(1278)
 <223> mer52c

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 ctgccscacc cgcggtgca gacctgggccc tcycactcca ggragcaggc aggagccagg 360
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 <211> 189
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(189)
 <223> mer53

<400> 188
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acaacaaata	atttttttagt	ataagtatgt	cccatgcaat	atttgggaca	tacttataac	120
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tggaacccc						189

<210> 189
 <211> 902
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(902)
 <223> mer54

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cttgacacgg	tttccagttc	tccacctcct
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tctgccttat	acmaccgcct	cctggkgacc
		180
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ccacctctca	gtcacagcgt	gacccccacgg
		300
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gtcccacagg	tctctctctc	tctctctcgt
		420
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cccggacagc	ttcccccttc	ccattggccc
		480
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		540
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		600
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gtggctatct	tggcaggaat	aaactggaca
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taggccgtcc	gccaggataa	agaagtatcc
		780
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camcttcctt	ggagcccat	cagggcaggg
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<210> 190
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 <212> DNA
 <213> Homo sapiens

<220>
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 <223> mer54b

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<220>
 <221> misc_feature
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 <223> n is a, c, g or t

<220>
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 <222> (501)..(501)
 <223> n is a, c, g or t

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 ggtaaaagaa gtatcccgtg aaaggcacac tgtaaacacc cacgtccagc tccccttcat 720
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<210> 191
 <211> 398
 <212> DNA
 <213> Homo sapiens

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<223> mer57a

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tgtgccaatc actgagtttc ggccaatcac aggcagccaa ctgttcaaac catgttcaaa    180
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gaacctactc tggttctggg ggctgcccga ttcgcgaatc gttctttgct caattaaact    360
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<210> 192
<211> 434
<212> DNA
<213> Homo sapiens

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<220>
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<222> (1)..(434)
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<220>
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<223> n is a, c, g or t

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tttgttccga ccacgaggca tccctggagt ctctctgaat ctgctgtgat tctgggggct    360
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tttttctttt aaca                                                            434

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<210> 193
<211> 7488
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(7488)
<223> mer57i

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<220>
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<223> n is a, c, g or t

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<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (259)..(259)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (296)..(296)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (564)..(564)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (1021)..(1021)
<223> n is a, c, g or t

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<223> n is a, c, g or t

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<220>

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<223> n is a, c, g or t

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<222> (2404)..(2404)
<223> n is a, c, g or t

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<223> n is a, c, g or t

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<220>
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<223> n is a, c, g or t

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<223> n is a, c, g or t

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<222> (4750)..(4750)
<223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (5567)..(5567)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (5601)..(5601)
 <223> n is a, c, g or t

<400> 193
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<223> n is a, c, g or t

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agagattttt actcctccgg tgctaggcag ggcctatgcc cataaactca gcaggaagca 6600
gttacagaag atggacctcc gcccttctgc agccccctta agattaagga ggagtatcta 6660
atctctgagg ggggaa 6676

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<210> 212
<211> 543
<212> DNA
<213> Homo sapiens

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<220>
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<222> (1)..(543)
<223> mer67a

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<220>
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 <222> (375)..(375)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (386)..(386)
 <223> n is a, c, g or t

<400> 212
 tgacaaagat tctctccttg accaaactct agccaggctc ctctgagccc ctttctccac 60
 taggcctcaa cctcggccta taaagacttg aacaaacact aacatagttt ctaatagctc 120
 aaggccacat ccctaggatg accctagccc ccccttaaag tgcctgcctg agaaaactca 180
 aggctgccaa aataatttac tgtttgttcc agccaacacc tgaagatagg gcccctgtct 240
 cccagtctct gtgggagggt aggagcctaa cttcgataag cgccagttag caaacacaga 300
 tgggctaatac acattkacac tgwccaacct tttgtaattt ttcacttccc tgactctact 360
 gagccccac gcgtncctc tccccnctcc ctcattctcc ctttaaaacg cccagtcacc 420
 tctgcacaaa tcgaagctga gctcagttca cgctggactc tttccctac tgcaatagta 480
 tattactgat taaaatccgt ccttaccgct ttaactagtg tccggctttg tttatctttg 540
 aca 543

<210> 213
 <211> 661
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(661)
 <223> mer67b

<220>
 <221> misc_feature
 <222> (414)..(414)
 <223> n is a, c, t or g

<220>
 <221> misc_feature
 <222> (507)..(507)
 <223> n is a, c, t or g

<220>
 <221> misc_feature
 <222> (518)..(518)
 <223> n is a, c, t or g

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<400> 213
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tgaccaaact ctagcatggc ttctagcagc ataaggccgc gtccctagga tgacccagc    120
cccccttaa agtgcctgcc tgagaaagct caacgctgcc aggagaattt actgtttgtt    180
ctagccaaca cctgatgata ggcccctgat ctccctttct tagagcattt actaaaaagg    240
gcttacaatt gtgaatcctt cctctgtccc tttagatat gtatgtatct cctacaactc    300
aggagtgtct ttctcaagga cctgagagcc attcctttga aatgtaatca tcgagaagga    360
tagggcctct gtctcccagt ctctgtggga ggatagaatc ctaactttga taancgccag    420
ctagcagaca cagctggcct aatcacattg aactgacca gccctttgta atttttcact    480
tccctgactc tgctgagccc ccacgtnccc tctcccnct ccctcattct ccctttaaaa    540
cgcccagtca cctctgcaca aattggaatg garctcagct ctttccccta ctgccagtag    600
ttactgaata aaatccgttt tcaccgcttt aactagtgtc cggctttgtt tatctttgac    660
a                                                                    661

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<210> 214
<211> 710
<212> DNA
<213> Homo sapiens

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<220>
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<222> (1)..(710)
<223> mer67c

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<220>
<221> misc_feature
<222> (36)..(36)
<223> n is a, c, g or t

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<400> 214
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aagacaccct cctctccctt ttcttagagc atttacttta gaaaacttgt aattgtgaat    120
cctttctctg tccctttgaa atgtatgtaa atctttttta aagctaaata agcctcttgc    180
cagctttacg acccaggaat gtcttttctc aggacctggg agccatctct ttgaaatgta    240
awcatcaagg aagatagtac ccctatctcc cagtttctgt gggagggtag gagcctaact    300
tcagtgggca ccttgctcca agttgcaaaa ctacctctg tcataaagat atgagaagtt    360
tatttttcct ttggataaag ccaattagct aacacagatg gccaccccaa ttaccaggtg    420
aatttaggat gaactatgtg tgacaaatgg tgctgtcaag tcctcttact tgaggactag    480
ttattgttta tcttgagaac atgtatgtaa tgggctgtat ctgctcggct atataaaagg    540
gtgagatttc tttctgtstt tgcaatctct tagcagattg cctgtgatgc gcatcacatt    600

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ctggtttaat gcttattcaa taataaaacg tgttttcttt ctcttctacc tttgtggaga 660
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<210> 215
 <211> 514
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(514)
 <223> mer67d

<220>
 <221> misc_feature
 <222> (279)..(279)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (397)..(397)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (412)..(412)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (427)..(427)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (488)..(489)
 <223> n is a, c, g or t

<400> 215
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 gactataggc ccctgacctc cttttctta gagcatttac tttagaaaac ttgcaattgt 120
 aaattctttc tctgcccctt tgagatgtaa atcttctaca acccaggaat gtctttctca 180
 aggacctggg agccatccct ttgaaatata atcawggaag gacatagggt ccctgtctcc 240
 cagtctctgt ggaagggtag gagcctaact ttgataagna gcaattwgca aacacagatg 300
 gcctaatacac attgaccaac ctccccacca acgtcctcca gtacttttcc actagctcac 360
 cccagcgctt aaaaatccac ctgccttttg tttcagngga gttgagttca anctctaacc 420
 cctattncaa tagtctctgt cttttattgc aatagtcttg aatgaagtct tccttgacctg 480

tttaacannt ttccggtgca atttttcttt taca

514

<210> 216
 <211> 563
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(563)
 <223> mer68a

<400> 216
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 caaggttggc ccttggtgctgg catctgggaa cttggatttc gggaggggttc ccaccattcc 120
 cwkaactgat aagagtggct cactgtgcct aaactgtttg tgcaaacaat atggtttatg 180
 ctgaacacct gctttccttc tgggagtctg gaattttggt acgtgctagg cagaggggtgc 240
 ctacgtgacc agcccccart aaaaaccctg ggcactgagt ctctaataag cttccctggt 300
 agacaacatt tcacatgtgt tgtcacaact cgttgctggg ggaattaagc gtgtcctgtg 360
 tgactccact gggagaggac tcttggaagc ttgcgctggg tttcctccgg acttcgcccc 420
 atgcgccttt tccctttgct gatcttgctt tgtatccttt cgctgtaata aatcatagcc 480
 gtgagtatga ctatatgctg agtcctgtga gtcctcctag cgaatcaccg aacctggggg 540
 tgggtcttggg aaccctaaca aca 563

<210> 217
 <211> 568
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(568)
 <223> mer68b

<220>
 <221> misc_feature
 <222> (461)..(461)
 <223> n is a, c, g or t

<400> 217
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 caaggttggc ccttggtgctgg cgtctgggaa cttggctttt gagaggggtcc ccaccgttcc 120
 cttaactgat aagagtggct cactgtgcct agactgtttg tgcaaacaat gtggtttatg 180
 ctgaacacct gctttccttc tgggagtctg gaattttggt acatgctagg cagagkgtgc 240

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ctacgtgacc agcccccaat aaaaaccttg ggcgctgagt ctctaattggg cttccctggc 300
 agaaacattg cacacacgtt gctgcatttt attgctgagg gaagtaagtg ygttctgtgt 360
 gacycctctg ggagaggacm ywkgsaagcc tgcgcatgga ttcctccaga ctccgcctga 420
 tgtgtctttt ccctttgctg atcttgccgt gtatccttac nrtgtcgctg taataaatct 480
 tagccatgag tataactgta tgctgagtc cgtgagtcct tctagcgaat caccgaacgt 540
 gggggtgggtc ttgggaaccc ctaacaca 568

<210> 218
 <211> 179
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(179)
 <223> mer69a

<400> 218
 ccagaggcag atttaccgtg aagctaata gaagcttaagct tcagggcccc tcacttgcac 60
 agggcccttc caaggccctg tacctaattt tgtattcgta attttgtatt ctttttctta 120
 aagagggccc cccaaattgt ataagcttca ggccccacaa aacctggatc tgcccctgg 179

<210> 219
 <211> 1501
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(1501)
 <223> mer69b

<220>
 <221> misc_feature
 <222> (800)..(816)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (743)..(743)
 <223> n is a, c, g or t

<400> 219
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 ggccccttcc aaggccctgg gaggggccct agcaatgtgt tcacatgggc atatgttttt 120
 gtaaaatttg caaaagtaag atattttaac cacaattggg taagactgct gtctctttcc 180
 actccgactt cccctccatc acacttcccc tcatgtcggg tggatttggg gtggccgtgg 240

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gcatttttgg gatctggcta agggaaagtt gagttgggga tacatttagt ttgggttttag 300
tgggatatat ttatgtgggt cgcagtcact tccgtgtata gttaagttat tgctagccgt 360
cccgttatag gaatggcttc caggaayatt cctactgccc actgtgccga ctcacccagc 420
gtcgtgacmt gaggcacagg accggagrtc gtatcgcgat atgaacgtgt cctacggcac 480
ctggcaccgg aagtatgcgg gtagtggagg agaaacaagg tttgaaatgt acagagccag 540
aagctagtct gtggaaaatt cttccaatca tcagacgtgt aaaattgtaa gcggaggatt 600
cggttctcat cgatgcctag ycagagcaga agttctctcc tgtcagaaat atactcgata 660
atgcagcgta tacaattata aatgcamcat gcatttattt gcatttttgg aagggaatca 720
tgcgaaatag aatttatcag aantccttgt ttgtagggca cagatctrta gcagtactac 780
aaacagtgag cacatctgtn nnnnnnnnnn nnnnnnttat taamtttctt gctgatatga 840
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acatcagtga caaactgggt actgagtgtc attaattcta agagyattta agattagtca 960
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ccatgctaga ggaaagactg aattatcttt ctattctctc tatagaaaat attacaaaat 1200
cgttgtcata tgaagaggcg atcaaagagt atgcagccaa aaaatgtagg gaaaaartat 1260
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gatgtttgtg gtatttgtca acttttttaa atttgtaatt tgttgcgatt tcttttctca 1380
ttctaaataa atattcactt ttgtacctaa ttttgtattc gtaattttgt attctttttc 1440
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g 1501

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<210> 220
<211> 597
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(597)
<223> mer70a

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<220>
<221> misc_feature
<222> (99)..(99)
<223> n is a, c, g or t

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 <222> (143)..(143)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (159)..(159)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (437)..(437)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (460)..(460)
 <223> n is a, c, g or t

<400> 220
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 tttatgtccw ccatgcactg gtnacctcgc ttacccgant ccggtgagac agaacgcgcg 180
 cacacacaag ttacgcgaag cgggtttatt acttacagac aggcagcaag ggacaacaga 240
 agcctaggat tcagggtrag yymgtcyccc aaggctcagg aaagctgccc agggcgggatg 300
 gaatcttgwc tgcgcgtgcc ccacttgcac tgcagctgag ggrccccgga aggcacccccg 360
 ccctggggttt tatactcag gaacmacatg acacgctggg ctaaagcggt gaaggacatc 420
 ctgtttcyag gagaganwgg aacagagccc aggctgttcn ggccagttcc tccctatctc 480
 aggatgttgc attcccagca cattctacag ttattcttga gaactacaag caagaaagag 540
 gggagwactg ggtcgggtcca aggccacctg grgaactgtc ctgcagagct atccgag 597

<210> 221
 <211> 665
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(665)
 <223> mer70b

<220>
 <221> misc_feature
 <222> (99)..(99)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (143)..(143)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (159)..(159)
 <223> n is a, c, g or t

<220>
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 <222> (437)..(437)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (460)..(460)
 <223> n is a, c, g or t

<400> 221
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 tttatgtccw ccatgcactg gtnacctcgc ttacccgant ccggtgagac agaacgcgcg 180
 cacacacaag ttacgcgaag cgggtttatt acttacagac aggcagcaag ggacaacaga 240
 agcctaggat tcagggtrag yymgtcyccc aaggctcagg aaagctgccc agggcggatg 300
 gaatcttgwc tgcgcgtgcc ccacttgac tgcagctgag ggrccccgga aggcaccccg 360
 ccctgggttt tatactcag gaacmacatg acacgctggg ctaaagcggt gaaggacatc 420
 ctgtttcyag gagaganwgg aacagagccc aggctgttcn ggccagttcc tccctaamtc 480
 aagatrttac attccctagg agggkcaaga acaaggccaa sctgttccgg gcagttcctc 540
 cctatctcag gatgttgcat tcccagcaca ttctacagtt attcttgaga actacaagca 600
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 ccgag 665

<210> 222
 <211> 711
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(711)
 <223> mer72

<220>
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<222> (20)..(21)
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<220>
 <221> misc_feature
 <222> (23)..(23)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (28)..(28)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (249)..(255)
 <223> n is a, c, g or t

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 <221> misc_feature
 <222> (309)..(309)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (385)..(385)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (474)..(474)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (681)..(681)
 <223> n is a, c, g or t

<400> 222
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 gttcycggcc gkgacgggat ggaggggtca gacacacctc gttrtacccc tcccttrcta 180
 accatsaykr ggcttgcytc cctaargrct aaacagaaac cagcyccttc gaaagactcc 240
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 cccatgaaga ggcaggaarc tcaattgtgc acgcgtgtgt ttctccyttc acgnatattc 480

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ctgttccctt tgccyctccc tcgaaatgtc tgtttctggc ttctggccgg aggctacgct	600
tcccagcctg tcagaatggc cgccctgcag gctgcaaccc tttatgagaa ataaagctct	660
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<210> 223
 <211> 636
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(636)
 <223> mer73

<220>
 <221> misc_feature
 <222> (108)..(108)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (290)..(290)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (472)..(472)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (614)..(614)
 <223> n is a, c, g or t

<400> 223	
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ttgtttgaaa cccagtcgta ccccgtcacc tttggcctag ttaaaacntc tcctccctgt	120
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cccacagctg ctgaccatga taaaacctaa tgggtcaacgc cagagtcatg taaataagtt	240
tcctccttct ggcattgttt ctttaacta gccaatccac aacccccgtn ggaaagcctg	300
agggataatg cccatggacc ttaataaagg catactcccg cagctgctct ctccctccct	360
accactggt tgagctccct gccgcctcca gacttcccat cggcctcccg tcggcaccac	420
taacctctct gggatctgta agtaatatat ttcttctggt tcatgcattt tngtttact	480
tgccctactg tgtctcmct gacacacaca ctcgaacctt actttccccc gggtcagggc	540

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tctcctagaa aatggctatc ttggcttatg gccactctca agagagagac ctcaagacca 600
aattagaaag aaancataac gataaaaatc acaaca 636

<210> 224
<211> 624
<212> DNA
<213> Homo sapiens

<220>
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<222> (1)..(624)
<223> mer74

<220>
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<222> (314)..(314)
<223> n is a, c, g or t

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cacggggagc cccacgggga agcaccgggg tcggtcagga ggcagaagga gcgacgggaa 180
aacgtrggca agagccttta ttgtggtttc catgggaagg aatgrgagag gcagggttaag 240
caggcttagg attggctagt ttgaataatt tcagcaggct ctggggyata ggggytgtcc 300
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aaaaaagcat gattaatata akyltgctctg tgatgaacgg atgccaaata gwcgaatata 600
gaatctaaga aaacacagaa caca 624

<210> 225
<211> 558
<212> DNA
<213> Homo sapiens

<220>
<221> repeat_region
<222> (1)..(558)
<223> mer74a

<400> 225
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gaccctggag ggactgcccc tcccagggtc agccaattcc tagagatagc aaacgactcg 120
cctgggagcg cgcctttcat atgcaaacca accaatccag agcccacacc cccaaccacc 180

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tcctttatcg ggctctcaca ctctgggcca ctatccccct gccctaataca ccccagggcc	240
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agccaatcct aagcctgctt accctgcctt gccattcct tcccatggaa accacaataa	360
aggctcttgc ccacgttttc ccgtcgctcc ctctgcctcc tgaccgacc tggtgcttcc	420
ccgtgtggcc ccccggtggcg tggcgtgccc ctttctcttg ggawctgtga gtaacaaact	480
atcttttcaa tggcagtcgt ctctgatct gttggcctta ccataactga ataataataa	540
aacctacatt ttaaaaca	558

<210> 226
 <211> 622
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(622)
 <223> mer74b

<220>
 <221> misc_feature
 <222> (51)..(51)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (54)..(54)
 <223> n is a, c, g or t

<400> 226	
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taaccatggt ttttattttc tgtattcttg atgctttgac atcttggggc cttgctgacc	120
ccggagagac tgcccctccc agggctagcc aattcctaga gatagcaaag gactcgcttg	180
ggagcgcgcc tttcatatgc aaaccaacca atccaaagcc cataccccca accacctcct	240
ttatcgggct ctcacactcc aggccaatat tccccctgcc ctaaatacacc ccaggggccag	300
gtaccaggca actagagacc acccctgtac ccagagccc gccagaatta ttcaaactag	360
ccaatcctaa gcctgcttac cctgccttgc ccgttccttc ccgtggaaac cmcaataaag	420
gctctggccc acgttttccc gtcgctcctt ctgcctcctg accgaccctg gtgcttcccc	480
gtggggctct gcgtggcgtg gcgtgcccc ttctcttggg aactgtgaga ataacaaact	540
atcttttcaa tggcagtcgt ctctgatct gttggcctta ccatactsa ataaaataaa	600
atcccaggta cattttaaaa ca	622

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<210> 227
<211> 514
<212> DNA
<213> Homo sapiens

<220>
<221> repeat_region
<222> (1)..(514)
<223> mer75

<220>
<221> misc_feature
<222> (86)..(86)
<223> n is a, c, g or t

<400> 227
cccttttccc gtttgccccg agaatactcg ccggcggcgc ttgcggctgc agcgtttacc 60
ccgagataac tttgccatga aatatnttgc ttttattatt attttcgcat cgttctagta 120
tatcgacttt ggaaacaaaa gacatcgttc ttttatagc attctgtttt tagtagtggt 180
atttccattt acaaaatata gtaattctcg attgctgaaa atgtcaaadc ctagaaaacg 240
tagcattcct acacgtgatg ttaacatcgt tctcgaacag ttgttggccg aagattcatt 300
tgatgaatcc gattttttccg aaatagacga ttctggtgat tcagatgatt ctgatgttag 360
ttctgttttag aaataactcc aagaacagtt tttatatttt attttcacat tgaaaatcag 420
tcagatttgc ttcagcctca aagagcgtgt ttatgtaaaa ttaaatgagc gctggcagcg 480
agctgcactt ttttttttct aaacgggaaa aggg 514

<210> 228
<211> 688
<212> DNA
<213> Homo sapiens

<220>
<221> repeat_region
<222> (1)..(688)
<223> mer76

<220>
<221> misc_feature
<222> (336)..(336)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (387)..(387)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (393)..(393)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (514)..(514)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (636)..(636)

<223> n is a, c, g or t

<400> 228

tgaggagtcc agctcctggc yaaaaaccta cgtgtgattt ttcaggcctg accataggca	60
attacaaagg ctttacctgg caggcctcat gggggaaagc tgccctcccc acaccagact	120
tggtgcacag ccagtgcatt gcagtctctg aaggagattg cagtcaagga ctcaggcccc	180
cctggccggc cacgctctta cacatatctg cattcctagc ccaggcgcct ccgttcggag	240
gcctctttat tcggggcctt ctgcagaggt cttcctcagg cgcctctgcc gagacctctt	300
tatgaggggt ggaagcggga gccttgaaga catttntctc cactctgact cagtactcag	360
tgcttttcca ctctatccc ttccctntcc tcnctccat gaccacggg tccataaaac	420
tgcaggagcc ttttgttcag ggctccctca acagtgagat gaccccatg tctgtgccga	480
tccacctgac ccttgaccgg tgccatttcc atngggaaaa atggaacatg gggagtcggt	540
actttctctg gttttagcct cttgcttata ctatcgaagk aagtgattaa agatttgact	600
gttactttca ttttggttg ttgccttaat cggctnctct gacaccggc agctcagctc	660
tctctccagc tcagctgagc tcctgaca	688

<210> 229

<211> 650

<212> DNA

<213> Homo sapiens

<220>

<221> repeat_region

<222> (1)..(650)

<223> mer77

<220>

<221> misc_feature

<222> (166)..(166)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (170)..(170)

<223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (335)..(335)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (337)..(337)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (348)..(348)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (393)..(393)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (412)..(412)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (608)..(608)
 <223> n is a, c, g or t

<400> 229
 actacggggg gaggtgtcaa attcaaaggt ctccaagacm accctcctgt ttartgattc 60
 gctagaagga ctacagaaac tcagaaaagc cggtatactc acagttacgg ttattacag 120
 tgaaaggata cagattaaag tcagcaaagg graaaggcac ataggncagn gtccaagaga 180
 rmcaggcacg rgcttccagt tgtcctctcc cggcggagtc gtrcgggcag cgcttaattc 240
 tcccgcaac grtgtgtgac agcacgcatg aagtattgcc aaccagggaa gctcaccgga 300
 gccttggtgt ccagagtttt trttgggggt cggtanata ggcattgntg accccgcagc 360
 atggctgacc ttggtcttct caggcttgag ccncccaagc atggctgacc tnagttactc 420
 agtctycagc ccctccagar gtcaryacc gtgtagccta aggccccac cataaatcac 480
 attgtagca ttractgtcc ggtatggccc aaggccytgc cagataaaca aagayactyt 540
 tatcaggcag gacattccaa gggcttagag gttatctccc arrgcctgag gataamcgag 600
 ggccagantc ttctttgggc aaggttaatc ctttactgya yaagaccaca 650

<210> 230
 <211> 239

<212> DNA
<213> Homo sapiens

<220>
<221> repeat_region
<222> (1)..(239)
<223> mer8

<220>
<221> misc_feature
<222> (19)..(20)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (102)..(102)
<223> n is a, c, g or t

<400> 230
cagttgtccc tctgtatann cgggggattg gttccaggac ccytgtgtat acmaaaatcc 60
gcgcatactc aagtcccgaa gtcggccctg cggaaccac gnatatgaaa agtcggccct 120
ccatatatac gggtttcgca tcccgcgaat actgtatatt caatccgcgt ttgattgaaa 180
aaaatccgcg tataagtgga cccacgcagt tcaaaccctg gttgttcaag ggtcaactg 239

<210> 231
<211> 508
<212> DNA
<213> Homo sapiens

<220>
<221> repeat_region
<222> (1)..(508)
<223> mer80

<220>
<221> misc_feature
<222> (441)..(441)
<223> n is a, c, g or t

<400> 231
caggggttct taaccttttt tgtgccatgg gcccctttgg cagtctggtg aagcctatgg 60
accccttctc agaataatgt ttttaaattgc ataaaataaa atacatagga ttacaaagga 120
aaccaattat attgaaatac agttatcaaa atattaaaaa accaaatttg tgatatagta 180
atatatgtgc ttctttatta atgcattaaa taacaagatc tagcggcggg tctaataact 240
accgtaattt cgaagtagtg atgagcataa atgatatttt gagatatctg caacaactgt 300
aatgtgatat gaaaatatct gtgatttcta ttggtgacaa agtcacaggt actgctaata 360
ctactgtggg ttgttgccta cattcataat tgaaggaaat gctaaatttc agttagaggt 420

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tagtgaaaat aaagatgtaa nttttttccc catccaagtt cacggacccc ctgaattcta 480

tccatagact ccaggttaag aaccacctg 508

<210> 232
 <211> 114
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(114)
 <223> mer81

<400> 232
 tagggtgacc aaccgtcccg gtttgcccg gactgagggg tttcccagga cgtgggactt 60

tcagtgctaa aaccgggaaa gtcccgggca aaccaggacg agttggtcac ccta 114

<210> 233
 <211> 653
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(653)
 <223> mer82

<220>
 <221> misc_feature
 <222> (186)..(187)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (544)..(544)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (557)..(557)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (567)..(567)
 <223> n is a, c, g or t

<400> 233
 cagttgatcc tcattatcca cagtagttat gttctataaa gtcaccgcga gcactgaatt 60

agcgaatact gaaccatcgc tcctagagga aatacagagt taggttcctg caagcctctg 120

gtcacaacat tttcatcaac cgatcaatat ataacyttgt tttatgtgtg tttctgttta 180

30307CNT1.ST25

aagacnnctt atttaatat	tattgttgat ttattaacac	tgaactcaca gccaacagca	240
ctataactca tgcctgaatg	aagcttatct aacacacata	ttttctccat aaggtacatc	300
acagccttct tgtgcttagg	aacaccagac agcacttcag	cactatgctc ggggccatct	360
taaacggcga aatcaccaac	aaaaagcaca aaaatgtgaa	aaacgtggca ctaaatagac	420
ctcgaaaagg acgcttggtt	acgggtatgag agctgaaaca	agaaggcaga gcgtcgcctt	480
gttcgacctc agctgggaac	gtgcacgtcg ggcgactcga	atctttcgct gctctgcgca	540
tgtntgcaaa tgaccngaa	agtgcctnca gtattgattt	tgggggttaca aataaatttt	600
agcgagtagg cgaattcgca	aatacggaat ccgtggataa	tgaggattga ctg	653

<210> 234
 <211> 441
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(441)
 <223> mer83

<400> 234	tgtggagtcc taattagggg	aaaggagtca ggctggcggg	accaggggaa agcaaaggga	60
	gaaagcaaat aagctataag	tctgcctttc ttcatgggtc	aggacacata gccctcctgc	120
	gcaaataact cacaatcttc	ctgcgcccaa ctattatcaa	acacctcagc tgacagaaaa	180
	atgcaagtta gctcmctgca	accttggcat tatcagtact	gcacgcagcm ctctgcagcc	240
	caagaaccat cctataaaat	ctccagcaag cctttgtctc	cttgagctca gctcctctct	300
	tgtgtgtctg cctgttgctt	ccttgcaaca tttttcata	ctttctctaa taaatctgcc	360
	tttctttacc tacaactgtc	ttggtaaatt atttttacct	cccgcgccac cggccccaga	420
	tagtcgccgc tccccacgrc	a		441

<210> 235
 <211> 378
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(378)
 <223> mer83b

<400> 235	tgtggagtcc tgataagtaa	gcaacaatga ggaagggggc	ccaggtgggg gagggcccca	60
	gggtggggaag aacaatgaac	aattgttctg agagacggct	aatcaciaaac aaccgcggg	120

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cacaacgacc tcgttccgca tgtagcccca gcagcatgac ctcattctgc acgtagcccc 180
 ctccagcacg accctataaa acttccctcc agcccctgcc tctttgcaga cagccccttc 240
 tctgctgtgc tgcccgttgc aaccttgcaa cgtattttca tactttctct aataaatctg 300
 cctttcttta cctacaactg tcttggtaaa ttcctttacc gcctgcgaca ctggccccag 360
 atagttgcac ccgtgaca 378

<210> 236
 <211> 373
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(373)
 <223> mer83c

<400> 236
 tgtggagtcc tgataagata agtaagcaac aatgaggaag gggccccagg tgggggagaa 60
 caattgttct gagagacggc taatcacaga caaccgctg gcacaacatc ctgttcccaa 120
 atacctcgct ccgcatgtag cccagcagc acgacctcat tctgcacgta gccccctcca 180
 gtacaaccct ataaaacttc cctccagccc ctgcctcttt gcagacagcc ctttctctgc 240
 tgtgctgccc attgcaccct tgcaacgtat ctttgtactt tctctaataa atctgccttt 300
 ctttacctat gactgtcttg gtaaattctt ttactgtccg cgatgccggc cccagccagt 360
 cgcacccgcg aca 373

<210> 237
 <211> 508
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(508)
 <223> mer84

<220>
 <221> misc_feature
 <222> (133)..(134)
 <223> n is a, c, g or t

<400> 237
 tgaggagagc aaagaccacc tggtgaccat caaacaggcc atccggaggc aaaactcctt 60
 atctggggaa tttagaagta attagacttc cctattatct aaagcaggca tctggttcca 120
 ggcctctttc ccnnaaaaac ttataagtaa ctagaatttc tatacgtctc cggaatgcat 180
 gcatgctgaa actcactgtg caacccttgc tgacatcaag gcaccaaagt gtctacaaat 240

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gtaatcattt accatgacct acgtggctaa tatgggtccaa attaccctta agctccccgct	300
ttaaggtcca taaatgctcc taaggaaaaa tccaccgcgg cgcgctcagt cctctcttgc	360
tgaggcgccc cgctgcactc tkctgcagcg ttctttctgt ctaataaaac tttccttttt	420
caaacctata ctgttgtcgg taaattcttt ttaccaaccc acgagtcgac cacttcccga	480
tgccggggct ctgacacctc gcctggca	508

<210> 238
 <211> 140
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(140)
 <223> mer85

<400> 238	
cccatttatg cctgagggtg caatTTTTTg aatTTTTgca tgagtgaaaa atcagacctt	60
ggcgaTgacc ttgagcagta ggatataaat aactcccaca tgcttagcgt tccaataatg	120
gaacactagg cataaatggg	140

<210> 239
 <211> 206
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(206)
 <223> mer86

<400> 239	
gacttcggtt tctagtaata tggtagacta gatatcctga aaacccttcc gctacaaaac	60
acctagaaat gctggataaa atataacaaa catcctttta aatgcatagc tgagctcgca	120
agaaagtaag ggaaatcccc agggggccaaa aatgaagaga gaactgaaaa ccagagcggt	180
gagtamgtga gctgacgctg tggctg	206

<210> 240
 <211> 541
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(541)
 <223> mer87

<220>
 <221> misc_feature
 <222> (347)..(347)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (304)..(394)
 <223> n is a, c, g or t

<400> 240
 tgtaacagtg gagggagacc tagcatgact gactccatct tgcctctgac ccccwgs ggt 60
 awcatccttt aggctaaaag cttctgctta ktcctgcacg taggccaagc taactatggg 120
 aggaatttag tttatagttc aactttaaaa aagatggtaa cagtcccttt cccaaactaa 180
 cccccgagga gataaggaaa gtatacacac aaataacaat gttatgttaa agatttatag 240
 gaacattgtg acctgacctt ggacaaagaa gttttgmcaa ctctcggac tcttgctggc 300
 gccagatgt ctgtgggtcat cggtcacctc ctaaccccaa taccnctt sttccccttc 360
 ccctagcata aaaagaagcc taagattyat gctnatttga gatggttctt taggacgcta 420
 gtctgccatc ttctcggttt gctggctctc cgaataaagt cactttcctt gccacaacac 480
 ctctgtctctt gacttactgg ctgtcgwgcg gtgagcagta ccagctttgg attcagttac 540
 a 541

<210> 241
 <211> 612
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(612)
 <223> 1tr36

<400> 241
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 tyttttctcc tttttcccct gttccccact tcctacttag cccttttagaa atgcaattat 120
 aaccttttac ctccccctca ccagacactc cctacagggc aagttcatct aactatgtgc 180
 ttagaagctc cagagcggaa ctctctccca ccaggagatt gcctcgagag ataacagctc 240
 atttacaacc caaagtatgc ccgctacgaa actctctccc acctggagag ttttgccac 300
 ytttacaacc tagttctgcc cacgaaggcg ccagcagtca ccagctcaac cgcttggtag 360
 ataaggcacc gaagcaagtc acgtagacct ccacctgctg cttcctcccc tgcctgcat 420
 tcatgccaaag ccccttttta aaagyscctg ctttctgctc caaaagcgaa gcggtaccct 480
 taaggcagga agcctgtact ttttccccct aagctagctt tggaataaaa agtcactttc 540

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tttataaccag acctcgctct tgtaattgg actctgcaag cggtgagcaa ctgaacctgc 600
gtttcagtta ca 612

<210> 242
<211> 426
<212> DNA
<213> Homo sapiens

<220>
<221> repeat_region
<222> (1)..(426)
<223> ltr37a

<220>
<221> misc_feature
<222> (173)..(173)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (231)..(231)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (265)..(265)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (159)..(159)
<223> n is a, c, g or t

<400> 242
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gttatctgat tctagctctg tcattgtctt tgagctatct tacaactctg taarttgtag 120
ataactgata gcaatgcaaa ataattcttg tctatagana tgcaaataaa ttntgtccgg 180
trgaggttca attgacttcc ttccccact gtggaaaaag ccagttttgc ntcyatttgc 240
aaattcattt caatattcct gattncctat aaatgtgtst gttctttgaa ttctcctttg 300
aaccggtttrt aacatcttac tggttccctc attaattaat gagttaaata aaatctttaa 360
cacgtgttca ttttatatyt gtatgagagt catgatttta ctttttttga aaattatcct 420
ttaaca 426

<210> 243
<211> 468
<212> DNA
<213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(458)
 <223> 1tr37b

<220>
 <221> misc_feature
 <222> (131)..(131)
 <223> n is a, c, g or t

<400> 243
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 caatgtcata ctggagcatt gtctaataagg ctcaactcaag gattatttaa ttatctaggg 120
 gaatgtacct ntgttgactt tgctatttac tatttgatta gggcccagat actatgaagt 180
 tacatgttaa cttgtagatt tctgtccagt agaaaagata accycaaagg ttatagtttt 240
 attgccctgt aggatattaa ccagttttgt atctaactta gcaatcttat tccarcattc 300
 ttctttactg aatgcctata aatacctagt ttctcaaatg ctctttgaac cagttttacc 360
 atcttactgg ttccctcatt aatgagttaa ataaaatctt tgacacgtgt tcattctata 420
 tttgtatgag agtcatgttt ttaacttttt gaaaattata ctttgaca 468

<210> 244
 <211> 556
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(556)
 <223> 1tr38

<400> 244
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 tttcagcctt gaaacatact ttgaaactct ttgtttctcc ctttcccacc aggcacttcc 120
 gtgaacagtg ctcgcttatc taattatgtg cttgcttaga aattccaggg gccaattttg 180
 aaacaaacca ggcagagaga cccagctgca gaatcctccc gcttaggggg agttatgaac 240
 agttagccca ccactaccgg gctgaagtca ggatgatgca aaccagacct ccagacgggc 300
 gattactcaa gatagccatc ggaacaagac atgcagacct ccaccctcct gcaccactcc 360
 cacatatttc ccacaccttt tccttcttaa accccttcac tcagcccaaa agtctgaaat 420
 gtcttctttg aggcattgagc ctggccatct cccatctgct agcatttgat taataaagct 480
 gctttccttt caccacacct cgcttctcat gttttgagct tctgagcagc gagcagctgg 540
 acttgagcca gttaca 556

<210> 245
 <211> 610
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(610)
 <223> ltr38b

<220>
 <221> misc_feature
 <222> (126)..(126)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (380)..(380)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (410)..(410)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (413)..(413)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (415)..(415)
 <223> n is a, c, g or t

<400> 245
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 gtttcaagat ataaccttga agcaaactgc agaagccttt tctcttatcc ttaaaataga 120
 ctccanatcc ctccctttct caccgtatat actcccttca catttatcta actgtatgct 180
 agtatctaata tatgtgctta cttagaagtt ccaggggcta atcttgagac agacagacca 240
 agcctggaga cccagctgca aaattccaga gattacytca aggcagctag tcaacaaccy 300
 rgccattggt gagatgaygc cagcccacas tccaggtgga ctgggaccca agatagccac 360
 cggaaaaaga cacacagacn ttgtactcag cacaattctt gcmagcacan tkngnaatgc 420
 ctyccwtatc aagttttccc tttttaaaacc cttgccttcy ccctaaaart tgaagyggtt 480
 gctttggata ggaatcyggc crcttcccca ttactagttt tggttaataa agtcactttc 540
 tttctacyag acctcactct tgtcaattgg actctgyaag cagyragcag ccdgacccat 600

gtcakttaca

610

<210> 246
 <211> 794
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(794)
 <223> 1tr39

<220>
 <221> misc_feature
 <222> (36)..(36)
 <223> n is a, c, g or t

<400> 246
 tgagacggag cagggacccc ctcttagggg cctgcngggc actccccccc caagcatgga 60
 aataaaggaa aatcttgagt tccttcaagg gaaattccag gcacctagct agccctgaga 120
 agtaaattgag caacttgata agcaagaagg taatagtagc ttaaaacaat agccaaggaa 180
 gttagagtca cgrgatgttt ggttccccta tagaaactaa agataacatc ttaacatatg 240
 tccctgagtt gtttttcaga aaccgagacc cccaccaaat ggaaaatgcc atccgctggc 300
 acgtagacct cagataaggg ggaactgagg actgaactct gaccaccgtt ctttgttcta 360
 aatttcttcc tgaggggcct ggaggaagtc acgcccacga gccagagcta acattctttt 420
 ctgctgacct caaattttta gacaaagctt cgcttcctta accaatcgca aatcagaaaa 480
 tctttgaatc yacctatgac ctgtaagccc ccgcttcaag atatcccgcc yttttaggcc 540
 aaaaccaatg trtaacctcc atgtattgat ttacgatttt gcctgtaact tctgctttcc 600
 tgaaatttac ccctgccttt aaaaaccctt acctgtaagc catcggggag gtcgggtctt 660
 aagcgtkagc tgcccgattc tccttgcttg gcgcctgca aataaacgcc ttmctttctc 720
 ccgctgcaaa atctcggtgt sgatgtttgg ttttactgcg ccgggagcgc ggacccagtc 780
 tcggttcggt aaca 794

<210> 247
 <211> 588
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(588)
 <223> 1tr4

<400> 247
 gaagcaggaa atataaaagg aaaaacaagt aaagggaaaa caagtccttt cctgaccagt 60

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ctgactcact ccaaagtcct gctggagcta tgataattat ctgcaaggcc aggcaggggc 120
tccgaaggag ggctccagga gcagggatga gaaaaacaag ttctccttat cagtttccct 180
gtttgaaatt ctctcccat aacattattc tttgttctgc tctcacaact atttttgtaa 240
ctatttctgc aagtctgtaa agattttgta agttcttggt tttctttctg tagcatggca 300
aggtcacaag acatgtttta gtaaggtagg ctcatgttgc aaatcctggt gtaaaacctg 360
tcacggtatg attaactgcc tttgttctgc ttctgtaaga ctgctttctc acctcgagg 420
ttttgcgcca aaaacccgac ttgccctgc ctgatgcatg tataaaagtc aagcccgctc 480
ttgttccggg ctgagccttt ggatgttaat ccgctgggcc agtggccacc taaataaaac 540
cttctgttg caccagtgta tctctccggc ctctgatac ccacaaca 588

```

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<210> 248
<211> 519
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(519)
<223> ltr40a

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<220>
<221> misc_feature
<222> (176)..(176)
<223> n is a, c, g or t

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<220>
<221> misc_feature
<222> (243)..(243)
<223> n is a, c, g or t

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<220>
<221> misc_feature
<222> (299)..(299)
<223> n is a, c, g or t

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<220>
<221> misc_feature
<222> (301)..(301)
<223> n is a, c, g or t

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<220>
<221> misc_feature
<222> (343)..(343)
<223> n is a, c, g or t

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<400> 248
tgttgggaga caattctcca tgggtctctc gcatttctgc acgtcttggt agcagaggca 60

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ctgactgcct ttgttctgga ctatcttttc aaggatgttt gtatagcgaa cagccttgga 120
agatagagat agtgtctccc tctggagcaa agggcagggt tgcttactag ccttgnaara 180
taaagataat gtctccctcc ggggcaaagg gcaggcatgc ttactgcca ttataaaaga 240
ttngggtttc ctaagctcgg gggtcctcws ctgtracgca aaccactgc gtgtgcagna 300
ntcatctggs ccccttcgca tcgccctcgt gggacttggg ggncaagggg aactgacgca 360
aacatgatgc tcatgctgcc tgctgtgctg tgartaataa agtcctttgt ctctgacca 420
ggagtctcgt gtcttctgcc agcatccatg aaactgtggc aggctaactt gttagcttgc 480
aagtagggta aaatctcaga cccttcacag ttcttgaca 519

```

```

<210> 249
<211> 462
<212> DNA
<213> Homo sapiens

```

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<220>
<221> repeat_region
<222> (1)..(462)
<223> 1tr40b

```

```

<400> 249
tggtgggaga caattctcca tgggtctctc gcgtttctgc acgtcttgcg agcagagcac 60
tgactgcctt tttttctgga ctatcttttc aaggatgttt gtatagcgaa caaccttgga 120
agatagagat aatgtctccc tctggagcaa agggcagggt tgcttactgc ccattataaa 180
agattcgggt tccctaagct caggggttcct ctctgtaac gcaaccact gcgtgcgcag 240
catccayctg ggcctctycg cgtcgccct gtgggamtg gggggcaagg ggaactgacg 300
caaatgctga tgctcwtgct gcctgctgtg ctgtgagtaa taaagtcctt tgtctctgac 360
ccaggagtct catgtcttct gccagcatcc atgaaactgt ggcaggctaa cttgttagct 420
tgcaagtagg gtaaaatctc agacccttca cagttcttga ca 462

```

```

<210> 250
<211> 773
<212> DNA
<213> Homo sapiens

```

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<220>
<221> repeat_region
<222> (1)..(773)
<223> 1tr41

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<220>
<221> misc_feature
<222> (189)..(189)
<223> n is a, c, g or t

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<220>
 <221> misc_feature
 <222> (332)..(332)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (378)..(378)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (399)..(399)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (446)..(446)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (456)..(456)
 <223> n is a, c, g or t

<400> 250
 tgtgccagtt atcaatttat tgcctctcag ctccaaattc acccttattg cctgctctgt 60
 gaaaatggat ctggaccctt taaatatattt tcctttgccca gctggcatga tgtaagctt 120
 tgtcagtaga gggcactgga gagacattgc aggaggaagg ggcttttctt cctggttcct 180
 gtgtgctgnt gtgctwggca tgctcacttg gcaggttcct gtagctcagg cytacagctt 240
 ctccagtgcc cagttcctgc agcgcacaca gcttctctag cacccggttc ctgcagcatg 300
 tgcmccttct caagcatgca gctctggcag tntaatcagc agtgtccagc agcttcccc 360
 agcaccatc actcaggngg tttcacagtg ggggtgcctnt ggtgagatac ctccctgtga 420
 acagctttcc ctgacaccct agaggntgga tttccnagaa gttccacagg gtrgatttcc 480
 agcaagtctt gttagtgcag taccacagta acttctctgc catccagtaa gccatagctg 540
 tgcctttgtc caacaagatc tggatctcag ccctgggggg aaggttctct cctgggtgct 600
 cttctctcagc cctaggggta gtggctgctc cttatatctg ctattcctat attctttaga 660
 gttctcttta cctcttasta gttaattccc tgttatagtt aatatttata ttaaactttt 720
 cctgttcaaa ttactgtgtg gtttctstct cctgattgga cccagacata tag 773

<210> 251
 <211> 495
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(495)
 <223> ltr42

<220>
 <221> misc_feature
 <222> (16)..(16)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (58)..(58)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (414)..(414)
 <223> n is a, c, g or t

<400> 251
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 ccttgaccac tctgtgaccc agccagctgc aggtttttcc ctgcaggctt gaacccaagc 120
 cagggccttg aacattccca ggcactgata aaggatattta ggttgttgcc caaaacactg 180
 aaagaaacta gccccggccc tgagccaaat tccttaaacc ctcatataaa ctccataccc 240
 tgacccccctc gctgcagaca tacctaggtta gaacatccct tttctctcac tgtccatctt 300
 gaggactgct gcagcccact ctgtaggtaa gttcccctaa taaatgcttt ggactgatca 360
 ccctggcatt tagtgcttct ttctttggaa tcccaactgg ccccatctca gganggtttg 420
 gggyaactccc ttgtgggaac tcccctgcca ctgcttttgg ggcgactcca gccacagggt 480
 cagcgggatr aaaca 495

<210> 252
 <211> 602
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(602)
 <223> ltr43

<400> 252
 tgaggcagga taggtagtca aggaagtaac catgtccttg ggacgcagca accgtggtga 60
 ccatacagtc aacacaataa gccccagcat tcgcattgta gtcgagctca ttcaagcaaa 120
 gctatcttca gtagggamtt tcccctgtag agagcatgcg catTTTtgatt ttacctgtcc 180

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tcaaactgac cctttgctca ttataatagt aaaaaacaca acccctgggt ggagatttaa	240
gatgctaata agacatgcga tgtatgaaca agcatgtaca gctactgcgc atgtgcaccc	300
agaggaccac ccagaacatg cttactagta acacctcttt cccacctcct tatgaataat	360
catgtaagac tcccataaag ggagtctccc yagcgccart cwwtgctgtc tcatccttat	420
gagcagcccg ccctgaattc tctctctcag ggtgtactgt ctattctgca cctaactttc	480
aaaatattct ttttcytttg caataaatrr ctctatgctg catctccttt gctgtgtgtc	540
tcttgtttta attcttttaa actaagaaga caagaaccga ggtmtcaca cagccatcaa	600
ca	602

<210> 253
 <211> 519
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(519)
 <223> ltr44

<220>
 <221> misc_feature
 <222> (223)..(223)
 <223> n is a, c, g or t

<400> 253	
tgataaccta cargtcacat ttggcaggct tccaaattaa cccacctcag ggaggtcttg	60
tgattcatgg ccacatcctg tccctgagta aagaatcttg tgagttcctc aaattttatc	120
gtgagttcct caaattgttg acgtactgat taatatgtaa cctactgaca ttgaaaagga	180
cactgatttg tttctgaatc ataaagtttt gctgatttat ttntgaatca taaagtttta	240
ctgattgttt tacatataga catttttagcc tgtatgttgc aatctgtagc caatgattat	300
aacctctgta ttgtaccctc caatraaaaa agacaactcc gatatgagga gttcccctcc	360
cttctcctaa actttcttat aaaagccttc caacttgtaa magacttcgg aacacwcca	420
actttgttgg tgtgtcttcc caggtcaatc ctcacatttg gcttccaata aacctttatc	480
aaattatttc tgcctcaaca gccttaattt cggctcgaca	519

<210> 254
 <211> 525
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(525)
 <223> ltr45

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<400> 254
tgtaaccgcg ggaccagccc aaactgggcc tactctgttg ataacaaaat gtcaagttac      60
cttgtaggta taacagagcc caaaactgca agtcattgtag cccgggcatg tgcaatagaa    120
aaagctttga cctctaaca caccagAAC caatgattcc tcccctcgga accaagaaga      180
ccgggacatg accggaacct gaatgccgga actctttcag aagcaaaggg gtccggttggc    240
ccggaagatc tggggctaaa atctgcctca acatacctta ccgtaaattg tcaaatttga    300
agccctccaa tcagaccctg ccaagccaac attcctaaat cttttccctt gccctctgat    360
cccttaaaac ttgccccaga ccccaaatcg gggagacaga ttgagccca cctcctgtct    420
ccttgctggc cggttttgca ataaagcctt tcttttctca aaagctggtg ccatagttat    480
tggtttctgt gtgcatcagg cagcaagccc atttgctcga taaca                      525

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<210> 255
<211> 489
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(489)
<223> ltr45b

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<220>
<221> misc_feature
<222> (396)..(397)
<223> n is a, c, g or t

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<220>
<221> misc_feature
<222> (465)..(466)
<223> n is a, c, g or t

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<400> 255
tgtgtaacca caccagacca atctggttca acttttatgt aacaaagttg tgagttgttt      60
ttcagttgcc atggaccccc aggttgaagg tcatgtaacc tgagcatgcc cagatgaacc    120
aagygtgcaa ccacaggggg aacctaagtg ctgagaccga ggagtgggga ctgaattaag    180
aagtggacac cacatggcag gatccaggat ccaatcagat tgagccctgg catcaccca     240
tggcaggatc caatcagatc atgcctccca gcatcacctt cattgcaaga tccaatcaga    300
tcacacctca ttaccctatg cctataaaac ctgccccaga cccagctca gggagacaga    360
tttgagcatt tcctcctgtc tccttgctag tcgacnnact tgcaataaag cttttctttt    420
ctcaaaagct ggtgccatag tattggcttc gcatcaggca gcaggnagcc cattgattgc    480
ttrgtaaca                                         489

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<210> 256
 <211> 461
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(461)
 <223> ltr46

<220>
 <221> misc_feature
 <222> (116)..(116)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (161)..(161)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (201)..(201)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (208)..(208)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (369)..(369)
 <223> n is a, c, g or t

<400> 256
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 tgaaacattc catggggggt crggccgtga gaaacatcct gcctaaccac ctgacnacaa 120
 ggcggacaaa ggcccactga agaaacatcc ctatcatatc ntgctgggca aagatccaag 180
 gaacaccacg atcacatyct nctggaanaa gggccagaac tgcctcatca taggaacatc 240
 ttatcaatat cctgccgggc agcaagccat actgccaga cccctccac ccagacctat 300
 aaattgcccc agcctgtaag cagtgggtgg ctctggcatt aagctgggtcc cccacytyyr 360
 caggttttnt gctggatata aaacctgcat ttgctgtaga gctgccctct ctctctctct 420
 gtgtctttct ttaaccctca ctttcccttc aaaacctaac a 461

<210> 257
 <211> 452

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<212> DNA
<213> Homo sapiens

<220>
<221> repeat_region
<222> (1)..(452)
<223> ltr47a

<400> 257
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cccagttccg ggaatgcctc taagatttcc agtttatcta ttgttccttg tgtaagagca 120
ggtacttact gtaaactctg cccttaggtc aaaacaacct tgatgttatc atacttacca 180
taaactctgc ccttagcaat tgcctacac attccttctg aagcacgtat accctttccc 240
tgtggtatat aagccctggg tctggggggg aacggcgcgg ggatccacca tcttgtctcg 300
ccgccgccca agacacagac gtggcttctg tttgtaagtc cctattaaat gtttctttct 360
gagaaactgg atttgtcagc ctctttcttc ggcctctcag cttccttgga cttttggggg 420
taggtttgca tagacctgct caccgcggaa ca 452

<210> 258
<211> 443
<212> DNA
<213> Homo sapiens

<220>
<221> repeat_region
<222> (1)..(443)
<223> ltr47b

<400> 258
tgtggaggct aaagtaactc catcttggaa gctaatccgc catgttgact tctgattaac 60
cccggttcca ggaatgcctc taagatttcc actttatcta ttgttccttg tgtaagaaca 120
tgtacttacc gtaaactctg cttttagatc aaatcaacct tgataatctc atacttaccg 180
taaaccctgc ccttagcaaa tgcctacac attctctctg gagcatgtat accctttccc 240
tatggtatat aatccctggg tctggggggg aacgggtgtg agatctacct gtcttgccgc 300
cacccaagac cacgcttctg tccgtaagtt cccaataaa tcacccttta ctgacaaact 360
ggatttgtct gcctcgttct ttggtttctc ggctccttct gcgtttgggg gtcattttgc 420
atatacggcc ctttcacgaa aca 443

<210> 259
<211> 787
<212> DNA
<213> Homo sapiens

<220>
<221> repeat_region

<222> (1)..(787)
 <223> ltr48

<220>
 <221> misc_feature
 <222> (91)..(91)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (107)..(107)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (172)..(172)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (244)..(244)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (476)..(476)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (652)..(652)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (779)..(779)
 <223> n is a, c, g or t

<400> 259
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 aaaggaaatt ggaaggcctt agaagcagcc ntcagaacca aggtctntct ctgaccttct 120
 cttgcctccc tgtctctctg cccctctttc tttccccaag cacagggagg gnctctctct 180
 gaaatttcct tatctgacta aggaaacttc tttccaaaag aaatgcaatt gtcttgaatc 240
 ccntcccta ggaatctcat caaataacca ggaaagatta accacatgag aagagaagag 300
 actaaaagtc atcaaacca saacaccaca cccagacaga cttttcatca tctattcttc 360
 tgagggcagc tctaagagat tacctgagag actttttatc tgcataataa gacaaccttt 420
 gttcacagtg cagttctgcc cctcaccttc ctataatttg ttctccacca cctccnccag 480

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agcccagaga aactttgtcc caggccattg gtctgttctt tgggcccatt catttcccct 540
 aaaaatcatt tactaccctt ctaaaattgc ctacatcccc cccatttccc tctcccctat 600
 gaagagggta tttaagcttc aaccatctgg cccttctttg agtctcatat anattttgta 660
 tgactcccat gttcatatgc atgttaataa atttgtatgc cttttctcct gttaatctgt 720
 ctattgtcag ttcatttcag caaaccttca gaggggacag aggggaagct ttcctttcnc 780
 ccctaca 787

<210> 260
 <211> 676
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(676)
 <223> 1tr48b

<220>
 <221> misc_feature
 <222> (96)..(97)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (263)..(263)
 <223> n is a, c, g or t

<400> 260
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 gcctcaaggt ctctctgacc tccccccccc ctcccnctc ccgtctctca atcctctgtc 120
 tctcccaaag cacaggatga agctgttctc tgaagttccc ttatctacct agaaactgga 180
 cctgccaaag aagaacacaa ttgccttcaa tcccttcctt gaaatttcat taactagaga 240
 agattaaaac tcatatcaca ganaaaaaaa gactgaaaat taaacaccac acctagagcc 300
 cagacaaact ttgtcacaaa ccattgtctg ttctctggtc ccattcaatt tccaaagaga 360
 attatttaca agcyattgtc tgttctctgg gccattcat ttcccccta aaaatcattt 420
 actaccctc aaaaaattgg cctacaawtt tgcctacatt tccccatct ccccttcccc 480
 tatgaagaag ggtatataag catctgtacc ccattgggtt attgggtaat cattctctc 540
 tgtgattccc ccatgctatg cacgttaaaa taaatttgta tgcccttttc tcctattaat 600
 ctgccttttg tcagttgatt ttcagtgaac cttcagaggg caaaggggaa gttttccctt 660
 ggcccctaca agggca 676

<210> 261

<211> 595
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(595)
 <223> ltr49

<400> 261
 tgaaggaaat caaaatattt yaccccaaaa tatayttctt tgacatattt tgagatggct 60
 rttcagaggg cctgcaaaca gaagtagccc tgcaaagctg tcttttgtgg gggagatttg 120
 catctgtaga gaaaatctgc attgatgcag ccaggctttc tctgaggccc tcccttgtct 180
 ggatctagga aagattaact gagagtctga cacctttaaa ggtctgaaag aaacatttac 240
 catctattct ctctgagggc tgctacctgt gaggtttcat ctacataaca agaccacctt 300
 tgctagccag gcctcctctt ctctccctcc cataacctgt cttgccacta taacctgatt 360
 taccaccata acctgttttg ggccatgctc cgagcccca ttctttctgt aacctcaaga 420
 tggatatataa gcttctgtac ccattgggg ggagttttg gtattcactt tgattctccc 480
 gtgtrtrcac gttaataaat ttgtatgcct tttctcctat taatctgcct tttgtcagtt 540
 gatttttcag cgaaccttca gagggcgaag gggaagtttt cccttgggcc ctaca 595

<210> 262
 <211> 969
 <212> DNA
 <213> Homo sapiens

<220>
 <221> rerpeat_region
 <222> (1)..(969)
 <223> ltr5

<400> 262
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 aggagactcc attttgttct gtactaagaa aaattattct gccttgagat gctgttaatc 120
 tatgacctta cccccaaccc cgtgctctct gaaacatgtg ctgtgtcaaa ctcagggtta 180
 aatggattaa gggcggtgca agatgtgctt tgttaaacag atgcttgaag gcagcatgct 240
 cattaagagt catcaccact ccctaattct aagtaccag ggacacaaaa actgcggaag 300
 gctgcagggg cctctgccta ggaaagccag gtattgtcca aggtttctcc ccattgtgaga 360
 gtctgaaata tggcctcgtg ggaagggaaa gacctgaccg tccccagcc cgacacccat 420
 aaagggctctg tgctgaggag gattagtata agaggaaagc atgcctcttg cagttgagac 480
 aagaggaagg catctgtttc ccacccatcc ttgggcaatg gaatgtctcg gtataaaacc 540
 cgattgtacg ttccacctac tgagataggg agaaaccacc ttagggctgg aggtgggaca 600

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tgaggcagc aatactgctt tgtaaagcat tgagatgttt atgtgtatgc atatctaaaa	660
gcacagcatt taatccttta cttgtcttat gatgcaaaga cttttgttca cgtgtttgtc	720
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cccacgaatg atcaataaat actaagggga ctcagaggct ggtgggatcc tccatatgct	840
gaacgttggt tccccgggcc cccttatttc tttctctata ctttgtctct gtgtcttttt	900
ctttccaag tctctcattg caccttacga gaaacacca caggtgtgga ggggcaacct	960
accccttca	969

<210> 263
 <211> 795
 <212> DNA
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<220>
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 <223> 1tr50

<220>
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 <222> (342)..(342)
 <223> n is a, c, g or t

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gtgatgctgg ggctgggact cgactctgca aaccacattt ctgctttgcc agctggctct	120
ccctgttagg ctctgccaat agggggcgct agaggagac tgcaaggggc tggaggggag	180
gaagaagga cttgctcctt cctgtctgct gctgtttcct gtctgcttcc tgttcctgtc	240
agcatcacc cagcaatgct tcttcaccct ggcagcagtt gcttccagtt gattccagca	300
gcagcagttg attccagttt gcrsagttcc agtttccaac anttctccc aacactccca	360
gaaccagcct cattgtacct cctcctctc ctcagagaca ccagcaccag ctgggcagtg	420
ccccctctc agaggtctga gtcccagctc catggggccc ctctctgag ctcagagaca	480
ccagcaccag ctaggcagtg cccccctc agaggtctga gktcccagct ccatggggcc	540
cctcctctaa gcttctaagt ttttaataatt ccaacctctt cccttttggt ccccagccc	600
taggggggtg tggtagctgc ttcctgcagt tactacctct gtgatacctt agtgttctct	660
ttttgccttt tcagttctct aatamacaac ttataccta gttaacctaa gttaacaatt	720
ctttatatta aattctctct gttaaaataa ctggtgtggt ttctgtcttc tcctgactgg	780
accctgactg ataca	795

<210> 264
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 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(671)
 <223> ltr51

<220>
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 <222> (25)..(25)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (191)..(191)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (193)..(193)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (314)..(314)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (378)..(378)
 <223> n is a, c, g or t

<400> 264
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 aattcctaca agaaaaacca cactcttgct aaactcccta acacaatagg agctatcagg 180
 caaattatca nanccctcct aactctgatt tacaaccag accactacaa ctctgattgg 240
 acagaggact ggccttaca acattctttt ctgataagaa actgcagacc ataagccagt 300
 tttggccagt ttanagaggc tgcacacaaa ctgtctttgt gtcctatagt tcaccttttg 360
 acgtaaagag ccaaattnta cttcatTTta atgctaaaac tccaccccaa agtgaacatg 420
 ggatgtatgt tacatatatg ttaccatt gcacatgtgc tcggctcccc tcataaatat 480
 ttatagcttt tccccaaac ctgctgaata tgtatgtctc cattgtgtaa taccaaccct 540
 gtgaggcata aaacccaacc tgccctttcc ctctttgaag agagagcgcc tttgggtctat 600
 gccagagact atctcttccc agtttgcaaa ctgatatttc caataaagct ctcctttcta 660

ctatttagcc a

671

<210> 265
 <211> 421
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(421)
 <223> 1tr52

<400> 265
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 cccctccctc ttccctttgc cccacatctg ggcaagctga taagaaagcc caggtgctcc 120
 ctcttttggg actagcagga aattcaaacc atacaagccc ctgcctgcgg gaaccctcac 180
 cccagcccca cccccctaac cacaataaaa accccaagcc agtctccttt ccctgctctc 240
 tcaagacatt tttggacctg cttgggagggc ctgccctgct ctcccagaa agcctcaatt 300
 atgtaagtaa taaacctttt cataccctct tgggtgtgtgt gtggcatcat cagtcttaac 360
 atccaaacca aattttgggt gggggagtc atcctgcctc tgcagagtga ccayaacaac 420
 a 421

<210> 266
 <211> 519
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(519)
 <223> 1tr53

<220>
 <221> misc_feature
 <222> (184)..(184)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (359)..(359)
 <223> n is a, c, g or t

<400> 266
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 tcaggagggc ctcaaatggc ctaactacaa gttcccctcc ccactctgct cccatggata 120
 aggtccccta gccaaacaac cctccttatc aaggggacca ggcacagttc ctgcttatcc 180

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ctgntgagta gyggggtttca gttccctgcc agcccgtgga attattcaaa yaagccaatc	240
acatcctcct gcgggaacca ggggtcacct caccctcttg atactacaaa gcctgcctcc	300
cacagcccct gggtgttcac tctgttcctg agtgcaaccc ccatgtggcc ctgtgtgna	360
tgtggtgtcc tcctcccca ggctgtgagt atatgtgatt aataaactgc tgtcaatctc	420
atctgtccag tgttggtgt catgtgttta rccatcccca taaccctagg gtgggaatcc	480
ctccctcacc aatggggtga agaggaggca atwaaaaca	519

<210> 267
 <211> 510
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(510)
 <223> 1tr54

<220>
 <221> misc_feature
 <222> (266)..(266)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (280)..(280)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (288)..(288)
 <223> n is a, c, g or t

<400> 267	
tgttaaataa aatttatagg aggccattgt tttggactaa gtcctgcac taggccccaa	60
cagaacagac caaaccaaaa tggagtcact catgctaaag ttccatgtca ccaagctgaa	120
actaagtgtt ttatctgacc ttccaagaaa tcaggagaga gagagagata acagccaaat	180
cccaaacag gccagtttta gccagcatga taaggaagtc ccctctgctt taacctttaa	240
cctaattgta agcaatcagt tacttntcta ttgttctgtn tccctgtntt aaccttacia	300
ggaaagtaac ttgaaatga ccaatctgct ttttgttctc tgtttctgct ttcttcagcc	360
cttttctgtc tataaagcca acctcctctg ctgagctcat yggaacactc attctatatt	420
atagaatgag gtrttgccca attctagaat cacaaataaa agccaattga gatctttaaa	480
ctaaatttgt tgtaattttg tcttttgaca	510

<210> 268

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<211> 548
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(548)
 <223> 1tr55

<400> 268
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 cactgcaggc tgagacctgt tagctcaaaa gccaccggc accaaactca aatttttaca 120
 catccawatt gttttaaaaa tagcccaaac aagcagattt ttagccattt agagcctgcc 180
 tgctttgcat accccgcgaa acytcacca acatctgcta gccattgcac ttataagrcc 240
 ccaargcgct gctgcycytt ggagctctct gaccagaga ctcccyaac gtgctgctga 300
 gaaacatcac ttagacacat aagccccctc tccgattccc ctctcccccg ggagttccct 360
 tgccctcctc cccttctgga tgggtggctcc astccctaaa cctctrgaca gtctcwtgct 420
 gtgaggagct tccccctcat gcaaccctgt ccaagtcca cccaataaag tttgttgtgt 480
 ggtactgccc ctgctgggtc atatcttttt ccttgatcag cccccaatc ccttraaccc 540
 ccttcaca 548

<210> 269
 <211> 445
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(445)
 <223> 1tr56

<400> 269
 tgagaattaa gaaaagaact tttatctgag gaatgcaagt cttttaaaatt atcaggccca 60
 gagagacatt aaaatgagac cgcaatcacg tcctactccc cactttgagc tatgtatttc 120
 atctcttgaa actgcttgct attgccacaa gtagctataa attaacctaa taatgccaca 180
 ccrgacacta taaccacac cctatagctt aacaatgtat atggccaatc actaatcaat 240
 gttatttctg taaaccaatg agaattyctg acaaacaact ttgtatcagc ccactccctg 300
 tccccctctt ttttgccttt aaaaatccac ttgtaactgc tgctaattgg agtgtatatt 360
 cagggcaact tgaatctatg ctctgggtt gcaatcctca agctttggct caaataaact 420
 ctctacttat attaatcttg cctca 445

<210> 270
 <211> 411

<212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(411)
 <223> 1tr57

<400> 270
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 tgaaggccag gtggtgagcc aaggccatgg tgcccagctg aggagcaggt gtccctgaga 120
 acccaaacat cccrgagagt atctgagaac ctaccaagga aaacagtccc attacacaca 180
 cacagtaggc aaagagccag aaaattagct taaaagcagc ttagagatgg gaggtggcac 240
 ggatctctag agctgtcctg ctgccatcca ggagtgccct gtatgtaagt cctaataaac 300
 tcatctactt atcaagctgg acttgtccga gtcattcttt ggtctctcrp ctccttccca 360
 gtttgggggg aggtattttt ttatatacag tcccagggtt ttcttgtaac a 411

<210> 271
 <211> 679
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(679)
 <223> 1tr58

<220>
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 <222> (150)..(150)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (225)..(225)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (386)..(386)
 <223> n is a, c, g or t

<400> 271
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 caatgggcct cacatgtcca ggcattatcc ctcccctacc ttcttgctc ccttaacaag 120
 ctgaccaag tcacgtagca gaaagggggn cctctcctaa cttagctgac caggctgaat 180
 tcctaaccat aaaaggaaga acctaaccat ttatctcctt gagtnatgtc ttccaagggt 240

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gctgaagcag gactctggca ttcctgataa gaacctgacc agatgcagcc ggctgaagac 300
 aagatggact ccagcgctga cctttcacca agtttttctt cattataatc tcattgtaat 360
 actaaaatct ccgcccargg tgggrnttat ctgccahhhh ctrgacatgc gatgcatgtt 420
 agagcatgac gtctcactgc gcaggcgcta aaaagacccc gcctaaacat gcttgccctac 480
 acgtcgctcc tttttcctgc ctcaacttcc ttaaaatgac aagagccgag cccttttggg 540
 agctagcatc aggatccctt tcctgtacgc tgctcccttg cgctgctcga gccgcaagcc 600
 tattaaacct tgcctgagaa aatcggtttg gcctggtgtt aatttctact tacatgagag 660
 ccaaggaact tgggggtcca 679

<210> 272
 <211> 597
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(597)
 <223> ltr59

<220>
 <221> misc_feature
 <222> (308)..(308)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (312)..(312)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (553)..(553)
 <223> n is a, c, g or t

<400> 272
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 gggaaaccca gagaaacctt ggaagctgar ttcacggcca taacaggatg ggagatcaga 120
 cacgcctcat tataycccct ccctcgctaa ctaccattag gttttcttcc ctaagggcta 180
 aacagaaacc agccctttca aaagtctcca cactgataat gtccattact agcttatctt 240
 cccaggtaca gaacaaagac aagatgagat taatcattcc ttcaccctc cccgagacat 300
 ctgcttantt tnttcctcta ttccctttty cttcaaagt tccacttatc ttatgtaaaa 360
 tgtagattta ctgggcacta actaaagtct cacaagtatg taatcattcg tctcactgcc 420
 accccctttt ttaaggaaaa tgtgtaaata ctaaactcc tgagaacctc tttggaaaaa 480

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acagccacag atgcttctgt gacttacatt tttcctrgrt gtgccctcaa gctggctcag 540
taaacctcga tgntttgaga cttatacctc aatcactcat tttggttatc acyctca 597

<210> 273
<211> 586
<212> DNA
<213> Homo sapiens

<220>
<221> repeat_region
<222> (1)..(586)
<223> ltr60

<220>
<221> misc_feature
<222> (37)..(37)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (96)..(96)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (121)..(121)
<223> n is a, c, g or t

<400> 273
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tctggaaaat ctcacacccs agagaccacc caaanatac ataytagata tgagcagaga 120
ngaggggaaa tacctatgca gaaaaaatg ccccttaaga tgcccagtaa tcattcactc 180
tgcagttaaa ctgtcagaat gttgctagct acatgctgat aagggaagag ggcaaaggag 240
aaattcctaa gagataygca ggtgcagtaa gtacagattt gaccactata caaccttcct 300
ggggtggcag taatgagcaa tgcmgccatt aggtagratt catatccaac accgggtccg 360
tgcattgcga tcaaccaaca gtaagggagg vtcccacaag cctgggtagg aactaggtgg 420
ggaaargcag ggacttaagg cagaagcagg aaaactagas aaagaaaaag gtggagactt 480
aagacagagg tggaacttc aaaaaaatc ygacatcata aaaaccccggt gcagactctc 540
agggctgctg ctggctcact ctctttcagc agcccrctct gcctca 586

<210> 274
<211> 595
<212> DNA
<213> Homo sapiens

<220>
<221> repeat_region

<222> (1)..(595)
 <223> ltr61

<220>
 <221> misc_feature
 <222> (283)..(283)
 <223> n is a, c, g or t

<400> 274
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 agccaaggcc cagaatgtgg caaggcaagg gttaaaaaga aaaaaaaaar gaacaagttt 120
 tcctctgcct agccaagctc acttcaagga cagttataag ataacgctgt ycgaraagcc 180
 aaggccaaag gaatgggctc cagacacccc cccacctcca gagcaagggt gaaggaaaaa 240
 aagagaaaga caaatccctt tactgttact cctttccctg gcntcttaag catgactatg 300
 ttttacaat gtctgtatgt agccagttct tgtttttctt tygacgcagc tacaaggcca 360
 ccagctatgc aaggccacaa gttatgttat gctatagatt atgtgacctg tctactgtatg 420
 attaactgcc tttgttttgc ttttgtaagc ctgcttataa aaaccccrct ctgtctttgt 480
 tcaaggctca gctttttgga tgtgaatcca ctgagctggg gcgtacctta aaataaataa 540
 caatcctcct gtattcaccc atattggtct ctctagtcct cagtttcccr caaca 595

<210> 275
 <211> 719
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(719)
 <223> ltr62

<220>
 <221> misc_feature
 <222> (318)..(318)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (674)..(674)
 <223> n is a, c, g or t

<400> 275
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 caaaaggcat cttgccaaaca gggaccagat gttttgccta atcaataaag actgcaycca 120
 accagataag gacataaaca agcacactct tccactatca gtcctcacca gaggactctg 180
 tggccataaa aagagcagga cttcaccagc tcaaaatggc catcttaaca gacaccgtct 240

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tgctgtcact tgtgataagc acccagcatc tgccaccaa ggctctgccc acatcaaaga 300
ctcttccttg caagacantg aggctgacgg actgcctgga tcaggccagg acactctttt 360
tgtctacgtc actctccctg gactggttcg ttaacccttt ttcctatccc ttttctcttg 420
atgttaaagt ttactttggt tgttggtgaa tgtttaatct ataacattta tatattgatt 480
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gtgcccattg ctctgactac cgagtgaayg ggaagtacta aggagaattg cctccttggg 600
aactccatgt agctcgtggc ttttgtgatt gaaatagcat caataaaagt ctgacattgt 660
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<210> 276
<211> 557
<212> DNA
<213> Homo sapiens

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<220>
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<222> (1)..(557)
<223> ltr64

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<220>
<221> misc_feature
<222> (339)..(339)
<223> n is a, c, g or t

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<220>
<221> misc_feature
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<223> n is a, c, g or t

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<220>
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<223> n is a, c, g or t

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<220>
<221> misc_feature
<222> (468)..(468)
<223> n is a, c, g or t

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<220>
<221> misc_feature
<222> (542)..(542)
<223> n is a, c, g or t

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<400> 276
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ttcacaaagc ccctgactct gtgatgacat gcagctctcn agaaagatgc tttgaagaca 120

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aarcaggatr gagcacacag ccccccayrt ctcttgccctg agtcactaya ttccttaaaa	180
gataaatgac cctagtcctt gccttttcct acacagaaga taatgtctga cagggttagt	240
gattatgcct ctgtaatcta taaccagatg tactcttaca cccaaacttt gatgtgattc	300
tgctctaata taacttctga gcaagtttga tgtgattant tctngcaagt ttgatgtgat	360
tttgcacgta ctgaacctct accacctgta tataagctgt gggctgaaac actgttttgg	420
agcagtctga cagaacctct ctgaaagact gctcccaggc tataggcnty cctcagtcta	480
cagtcctcag taagacttct gaataaaaact aactttaatt ctttaaaaagc ttgatttttt	540
tntttcttta gttaaca	557

<210> 277
 <211> 669
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(669)
 <223> ltr65

<220>
 <221> misc_feature
 <222> (131)..(131)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (465)..(467)
 <223> n is a, c, g or t

<400> 277	
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gtcataaaaa ncctccttct ttgagtgact actgctttct tactcactga gaaaccttgt	180
tctctaaaat catagactat cagaaacttt gctgtttgaa attatatcag taagaatgaa	240
acatcccact cttgcctgga ggatctaagt cactttgaca cagagaagca gcctcaattt	300
ccaaccaggg tgcagagctt cagataaggg gtttctggac acaacattcc acatttatct	360
taactttgta gtttccaagg aaacaggacc ctgggtccac tttgcagtcc aggacctgat	420
gttgaccctt ttacacacag ccctgctttg ctttgagcct atcannntca aaacactgct	480
tcattttaaat ttcacctaaa ctccaccctt cccccaatc ctataataac tctatctttt	540
cccttgcttg gtagatgct ccatggttcc tctgggtgtgc agtctccctc attgcaataa	600
gtcaataaac ctgactttgt tggactacag gtttgctcct ggtggtctta ggctgattgg	660

gctaggaca

669

<210> 278
 <211> 610
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(610)
 <223> ltr66

<400> 278
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 gtaaacaagc tttatcccac gtaaattggca atgcagatat aataagcaaa tgatataata 120
 agcaaattga tataataagc aaattgcaat gggaagggga gaagggaata gatatatata 180
 tatgtatata tatatatata tatatatatta cactcaccag actatggagg attcaccacc 240
 agactgggaa gcaacagcct gggctccaga gtcggccact catccgtgca cagacgagga 300
 gaggtctcat gaagcttygg ygcagtctgg gaccctagct ctttttgtaa cgagttgttt 360
 ggcattgaggc ccagtcacga gggcccttca cgactgggct caaggaacac aaaaagggtca 420
 acttgttttt gtgattgtct attgtttttc aataactaat gtataggaat agattgaaat 480
 agagatttct ccgaaacagc gctggatgaa tgcctcaagg ggctcacaca acctgttcca 540
 ggacttggtg accattgttt gtgtccatgt tcaattgagt tcaaatttaa tatttaactt 600
 ttctccaca 610

<210> 279
 <211> 566
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(566)
 <223> ltr67

<220>
 <221> misc_feature
 <222> (16)..(16)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (98)..(98)
 <223> n is a, c, g or t

<220>

<221> misc_feature
 <222> (235)..(236)
 <223> n is a, c, g or t

<220>
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 <222> (402)..(402)
 <223> n is a, c, g or t

<400> 279
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 cttataaatt ctacctcttt aaggtagaag ccagaaanct cattttccca gcctcccttg 120
 cagctagggt gcwggcatgt gacctaggct ccgccaatca gatgcacca tgcagcaaga 180
 cttcaaatta gaagctagt atgcaaagaa gcagggtgcca tgcagaatcc actcnngggt 240
 gagagtggca gcagctggca gagagttttc agaggcagga gtggcagaga tccaagtagt 300
 agtgtccagt gttcatgtgt ggtgcaagt gtggtatgca gtgtccagta gtagcagcag 360
 tggatcctc actgtgacca gttctgcagt gtgatttggg cngcattgtt cctggctgta 420
 tagcctctaa gcctggttct ctagccctcc tagagattct gtgagctacc taatattcctt 480
 taatattcct ttaataaatt ctttttctgc ttaaattagc cagagttggt ttctgttggt 540
 tgcaactaag aaccctgact gataca 566

<210> 280
 <211> 563
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(563)
 <223> ltr6a

<400> 280
 tgtgatacct taccttggtt taatatgaca cagactctcc cttagctgag aaagccagac 60
 agactccatt tggctccttc atttgcaaga catcaagggc tccttaccga ccccttcctt 120
 caaggactcg tgcaagctga ctcccagcac atcaaggtag tgcaattaac caataaggta 180
 ctgtggcaag ttatgtccac agttcccaga aattcgccca agtgatagta ccctaagccc 240
 ccgcgtttgt gtctggtaga tagcagccaa agccctcgca cctatcacct tgtgatgtga 300
 tggatttaaa gcccctgcac ctggaactgt ttgttttcct gtaaccattt gtctttttta 360
 ctttttttgc ctgttttact tctgtaagat tgctacagct aggcttcccc tcccctctct 420
 aaaccaaagt ataaaagaaa atctagcccc ttcggggccg agagaatttt gagggctagc 480
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ccataactcg cttggttaca aca

563

<210> 281
 <211> 450
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(450)
 <223> 1tr7

<400> 281
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 ctgatgacat tccaccacaa aagaagtga aatggccggt ccttgcccta agtgatgaca 180
 ttaccttgta agagtccttt tcctggctca tcctagctca aaaatctccc ctactgagca 240
 ccctgcgacc cccactccta cccgccaaag aacaaccccc ctttgactgt aattgtcctt 300
 tacctacca aatcctataa aacagcccca cccctatctc cttttgctga ctctcttttc 360
 ggactcagcc cgcctgcacc caggtgatta aaagctttat tgctcacaca aagcctgttt 420
 ggtggtctct tcacacggac gcgcatgaaa 450

<210> 282
 <211> 691
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(691)
 <223> 1tr8

<220>
 <221> misc_feature
 <222> (502)..(502)
 <223> n is a, c, g or t

<400> 282
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 catcttgctt ctaacctcca agctgtcctt gttcattcct gggcgtaggc tgaactaact 120
 ttgggagaaa cttagtttat agtttatagt ttaaacaaag acggtaacag ccctttccca 180
 aagcagacct ccttcttgcc tggggactag attgcctttg taggactaac attagccgca 240
 agattagaaa ttatggttta ggagtcatgc agctggaggc tacaagattc tgaccctccc 300
 taaactgctc ctaagatcag tgcttgagat attttgaga ccctgcgctt gatggatcag 360
 ctggcaccac ccagatcaat aaactggctc atctgatctt gtggcccca cccaggaact 420

30307CNT1.ST25

gactcagcgc aagaagacag ctycaactyc ctatgatttc atcyctgacc aatcagcact	480
cctgggtcac tggcttcccc cnaccaccca agttatcctt aaaaactctg mtccctgaat	540
gctcagggag actgatttga gtaataataa aactccggtc tcccgcacag ccggctctgc	600
gtgaattact ctttctctat tgcaattccc ctgtcttgat gaatcggctc tgtctaggca	660
gcgggcaagg tgaaccmmtt gggtggttac a	691

<210> 283
 <211> 727
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(727)
 <223> ltr8a

<400> 283 tgaaactgcc ttgcaaaaa ttataacagt gagaaaatta tgacagtga agagatctga	60
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ggccaagcta actttgggag acatttagtt tatagttaa atgataatag cccttccccca	180
aaactmaacc gcctttgtaa agctaataa agaccaccag gytaggagga tgagaggagc	240
ctgaattctg ctaagggtga gacataaacg attaccagcc attattccag aggtcacaag	300
atttgcaact tccccatta ctctgcaga taacatcact attgtagaac ctaagattgg	360
ccttttgaga tatcttttca ggtttttttg ctttctgac accaatggct ccacctggac	420
ccgccaacca ctctgtggc cccaccaga agtgactcag cacgcacgag gaccattttc	480
cacacccta tgattgcac cccaaccaat cagcagcaag caccattgc ctagccacc	540
ccaccccctg ccyacaaac tatctttgaa aaaccctagc ctctaaattt tcagggagat	600
tgatttgagt aataattctg tctccacat ggcgtggcca gccttacgac aattaaactc	660
tttctttatt gcaatgccat ggtctttgtc tgtgcagcgg gcaggaagaa cccatcgggc	720
ggttaca	727

<210> 284
 <211> 645
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(645)
 <223> ltr9

<220>

<221> misc_feature
 <222> (230)..(230)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (235)..(235)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (396)..(396)
 <223> n is a, c, g or t

<220>
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 <222> (399)..(399)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (449)..(449)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (469)..(469)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (484)..(484)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (497)..(498)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (636)..(636)
 <223> n is a, c, g or t

<400> 284
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 aaggttttcc tttaacgaa aagcagcccc caaatcattt tcttttctaa caaagagcag 120
 cctgtaaaat cgagctgcag acatagayaa gcaagctgga agcttgcacg ggtgaatgcc 180
 ggcagctgtg ccaataggaa arggctacct gggggcyagg catgttcaan atggnggctc 240
 catcttcctt tctctttgtc agccacgtgt acagtaagga gcagacaaca tggcgccggc 300

30307CNT1.ST25

cargtagaga gccatttgc ataataaaag attaggggtgg ggcggccagc cttccccgcg	360
cgctatgyaa acgkcacacc tggccaacc aatctntgng ccctatgtaa atcagacacc	420
gcctcctcaa gcygcgtctat aaaatccgnt gcatygtcca ccagccggnc tttccactc	480
gggnaccctt ctctctnnag agagagagag ctgttctcct ttctcttttc ttttgcctat	540
taaacctccg ctctaaact cactccttgt gtgtccgcgt ccttrattty cttggcgtga	600
gacgacgaac ctcggtatt taccacagac aacgangccg cttca	645

<210> 285
 <211> 644
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(644)
 <223> ltr9b

<220>
 <221> misc_feature
 <222> (78)..(78)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (144)..(144)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (430)..(430)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (443)..(443)
 <223> n is a, c, g or t

<400> 285	
tgttgtagga gttattaaga aattatttta ggcagataga gaggaaaagg ggtccttggg	60
aagttttcgt ttcttttnaa agcagctcca gaaacatttc ttgtctagca gaaaagcccc	120
ggctcttaga gccaggccgg caanctttga tatgcaaatg caggccatta gaaactgggt	180
ccaccaaca tggcgattcc caccgtcgtc ttcttgccct tgccccacat gtgcctggca	240
acatggccgc cccacatat cccacgtgt gtagaacatc atggcgccct gcatttgc	300
attaaaaggc taggggtggga gggccagttt tttcgcgggc tacgtgaatg acatgcctgg	360
tcaaaccaat cccctgagcc ctatgcaaat cagacaccgc ctctccagc ctctcatat	420

30307CNT1.ST25

aactggctgn twtccgccgc acncgggggtt tcctctctcg gctttggagc cccctccct 480
 ctgtctctgt acagggggagc ttcttccttc ttctttctcc cttctttctt gcctattaaa 540
 ctctccgctc cttaaaacca ctccacgtgt gtccgtgtcg ttttatctaa atcgggcgcga 600
 ggaccaagga ccctggtgtt cctccastca tcggagccgt atca 644

<210> 286
 <211> 80
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(80)
 <223> model

<400> 286
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 ttacttttgc accaacctaa 80

<210> 287
 <211> 471
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(471)
 <223> marna

<220>
 <221> misc_feature
 <222> (22)..(22)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (25)..(25)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (70)..(70)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (302)..(302)
 <223> n is a, c, g or t

<400> 287

30307CNT1.ST25

ttatacatcc aatgaatgt tntcnttcaa agtagtcacc ttgggaaagc tatacattta	60
tttttaacn awcacaattc tgccattgat caaaacattt ttggaacttc tcttttgga	120
ttgccttcag aaccagttaa tgagccacat aagaaaatca gtctcattac tttatagtca	180
cacctcattt ttgacaaaa atagtattac ccagtttgat caccacctt attcaccaga	240
cttggtcttg aatgactttt ggctgtttcc aaaaatcaaa tccaccctca aaggataaag	300
anaagatttg ccaccattga ggatattcaa aagaatatgc tgcaggctct gaaggcaatt	360
ccaaaaagaa tgttccaaaa atgttttgag caatggcagc atcattggaa taagtgcata	420
gcttccaag gtaattattt tgaaggggac aactctcatt tggatgtata a	471

<210> 288
 <211> 1264
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(1264)
 <223> mer100

<220>
 <221> misc_feature
 <222> (137)..(137)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (289)..(289)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (495)..(495)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (546)..(546)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (1165)..(1165)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (1190)..(1190)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (1241)..(1241)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (1238)..(1238)
 <223> n is a, c, g or t

<400> 288
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 ytrcaacaaa gatgttgaar ccagaggtac amaaaaggct gcatgacgtt actaatgtta 120
 atgttataaa aacaaanctt taatatcttg tacagtagaa tctatataat actttgtaat 180
 aaawtgggaa rtgaccatga aaatcttttg taccacacag aagtttgcta gttatcttgt 240
 ggcaaagtac ttaattaaga gttgtcaaac ttaaagatga gttatattna tttttctttt 300
 tacaaaaaga caagtgttcc aaatttgact gaccttttct gtgatgacaa gtgactgtca 360
 gtagtatgct acctagtaga tatttttgaa aaaaataaac gcacttaatc tgtcccttca 420
 aggtaaaggt gtcgatatth taacaatgag tgagaaagta actgcttttg aargaaatgc 480
 acaatatgga gagancattt tgaaaataga tgtttggaat tgtttccatt gttatatgat 540
 tttgtngccg aaaatgatgt aagtgtgata cctataaaaa ctctcatatc tgcacacttt 600
 aaaacttgga aacagaaatt tctaacctgc tttttaaaaa tcttccaaat gaagagtttt 660
 aagtgggttt tgaacacatt tgttaaaaat attaaaatgc aacatcttcc gattagtttg 720
 caagaacaac tgattgacat cagggaatg ggaatttac tagccaaatt tcaacaaaaa 780
 cttttgcata attggttagat gggattgaaa aatgagtatc atgatttagt aagcacagcc 840
 aatgatatay ttcttccatt tggatctaca tatcttttg aggtatcttt ttcagctatg 900
 acagccatta aaaccaagta ttgaaataaa gtaaaaacca gaccttcaaa tcaactgtatc 960
 aaagtgttaa accaagatth catattatyc tagcatttaa ataatgtyag atttttaaaa 1020
 aaaagcatat tcaatcatat tctctcatta aaaaatwaat aataaaattt taatgaatat 1080
 ataaaargtt ttatatacaa ttataaaatw taaattatth taaawtatat ttyatcttta 1140
 tctcatcctt ttaaaattts ttttntgtat atgctttata atatgcatan taagagtagt 1200
 acatgcatat aatttawaaa ttaaaataca yatgttknaa ntayatgttc aaaatatttt 1260
 tatt 1264

<210> 289
 <211> 474
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(474)
 <223> mer101

<400> 289
 tgtgaacaaa tgtgaacctg aaagagccaa tccttcaaga tggatcccga gtggctaact 60
 gggcctaaat ttaaaataga gccaaagcggc catttgctga ctagagggtca cacacgtact 120
 ctgagttccc cgaaaacca cacctctgtt taactttggg actttcagag ctcacctgaa 180
 ccaaccaatc agagctcacc tgcmtcaacc aatcagggct cagctgtatc aaccaatcag 240
 aactcagctg tgtcaaccaa tcagaactaa gcaagtttga atccttcatt tgcataaacg 300
 gacctgattg ggaacctggg caggaacttt tgctataaaa cccaaaccct ccttttgttc 360
 tctggaaccg caccttcgtt ttacaccgaa ggctgcatct ccccggtttg caaactgttc 420
 actggaataa agtctctttc ctccaaattc cttttcagag aacttttggt caca 474

<210> 290
 <211> 570
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(570)
 <223> mer101b

<220>
 <221> misc_feature
 <222> (142)..(142)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (209)..(209)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (353)..(354)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (449)..(449)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (552)..(552)

<223> n is a, c, g or t

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<400> 290
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caaagttaaa acagaaccag gcagccatgg ctgggtgagg gagcagtcac atattctgtg    120
ttctcagaaa gatgtaaaag tntcacagga cctccctttc tacaatcaag ccaaaccagt    180
tcctattgty agtgccaaga taaactgcng ccagaaacca cctccccaca agcccactag    240
aaacaaacat ctgacagaga cttctgattt ggggcttggg aaccaaccaa tcagagctca    300
cctaccccag ccaatcaggg ctcagctgta tcgaycaatc agaactyagc tgnnccaacc    360
aatcagaact aagcaagttt caatccttca ttgcataaa tgracctgat tgggaacctg    420
ggcaggaagt tttgctataa aacccaaanc ttcctttgtt ctccggaaag caccttcatt    480
ttacactraa ggctgtgtct ccctggtttg caaactgttc actggaataa actctcctcc    540
aaattccttt tnagagaact tttgttcaca    570

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<210> 291
 <211> 332
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(332)
 <223> mer102

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<400> 291
gggttgcaaa ctcaaatgcc tacaggggcc aggcaggtaa cataaatgag tgaagtgggc    60
caggtgggga ctgtggcaaa ctggagagca catgccctgt ctaaaggggg cagcagctgc    120
tactcagctc cagccaattg ttgccatgtg ggaatgtagg ccagtgttg ccagatcttc    180
tgatTTTTca agagaagcca gaaatctaga tttttatgtg aaatctcctg atttttaaat    240
gttggaact aatttaaaat ttttawaaaa cactgtgtag gccaaacaaa acatatctgt    300
gggccagatt tagcccatrg gctgccagtt tg    332

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<210> 292
 <211> 166
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(166)
 <223> mer103

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<400> 292
agttccatgg tcaaataagt ttgggaaatg ctgggttaaa caaagttaaa caggtttctt    60

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tactgcagga cttctcagag cctttaatat gctaattgtgc attgtgaatc tccaagaggg	120
gaaatatagt atgcagtrtt tcccaaattt atttgaccat ggaact	166

<210> 293
 <211> 185
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(185)
 <223> mer104

<400> 293	
taccatatatt cattgaatct aagatgccat caattgtaag atgcaccatt attttatgta	60
ccactaagaa agaaaaaaat gctgccaatt aaactataac atgccattaa ttgtaagatg	120
catcccaatt tcagagatgt taaaatgtga aaaaatgtgc atcttagaat cgatgaaata	180
tggtta	185

<210> 294
 <211> 204
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(204)
 <223> mer105

<400> 294	
cagcctttct caactagggt tctatgagag aattaagccc taatgcccta aggcattccat	60
tgatgtaat gaattaactt ctctcctatg catcctagaa tggtagtagt tatataccat	120
ccttgggaga attgagaaaa tagtcactca aatcattttc tgtgttctgt ggttcagatg	180
aggaaccctg gttgagaaag gctg	204

<210> 295
 <211> 258
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(258)
 <223> mer106

<400> 295	
cctatttaca ttaggccatg cattctcaac aggggcaata ttgcccccaa ggggggtgaaa	60
attggttctt ggggggagaa aaaatcttag atattacaat ggtttgtggc cctccaaagg	120

30307CNT1.ST25

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gccacagtac ataaacagat atacagtata tctgtggtat taaaatttca tggggaaggg      180
ggatttagga aaaaaatgtc taaaaaggct ccttaggggg ggaataatga aaaaagggtg      240
agaaacactg gtctagag                                          258

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<210> 296
<211> 197
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(197)
<223> mer107

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<400> 296
caggggtgtc caaggagag aatacagtca tgggttctta gtttctgtt ctgggtgggc      60
cagtaaagcc ccttcctcat ccctcttttc tacttatcac tagagacaga aactaaaaac     120
catggcttca ggctgctaaa agcctaaaac aaaacaaaac agaacaacaa caaaataagg     180
cgggttggac aagcttg                                          197

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<210> 297
<211> 633
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(633)
<223> mer108

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<220>
<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g or t

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<220>
<221> misc_feature
<222> (10)..(10)
<223> n is a, c, g or t

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<220>
<221> misc_feature
<222> (17)..(18)
<223> n is a, c, g or t

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<220>
<221> misc_feature
<222> (20)..(20)
<223> n is a, c, g or t

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<220>
 <221> misc_feature
 <222> (57)..(57)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (90)..(90)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (113)..(113)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (135)..(135)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (182)..(182)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (184)..(184)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (225)..(225)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (302)..(302)
 <223> n is a, c, g or t

<400> 297
 antacacctn gcagttnnmn cacagtttca ctgtaaattt taaacacaaa taaaaantcc 60
 aartggtcac atagaatgat agaattgaan taactcaagt tctgttgtct ttntttttac 120
 aatcactatg ctatngttta aatacaggaa tatgtagtac cacagggggtt ggagacatga 180
 antnactgta cccgaagtga gcttgaatgr attctaaact attangaact tactctagaa 240
 acaaacatat gtagctgagt ccacgtgtgt tggggggccaa ctgtataact ggaagttctc 300
 tnaattaact tccatgtaga atacaatggtt tattaagga taagtaataa aaatgtgcta 360
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cttagaccaa caaaagattt tttttttwgg gaggagtatt ttatcactga cattgttttag	480
aattgctggt gcatggtgat aataamaaag cagactgact ttagtcagt tttattattg	540
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 ttggcctaga acctttcttt tctcacttcc ttctctctgc cttcaantca gtggacaagt 180
 atangcatgt gtaatgctct agagatgggt taacaaattt atatccaaaa gtcattttcca 240
 gaagacaanc ctttctatrat antttaacaa aaagtktaca aaagggtgcta attctactan 300
 gtncctttgtc atacactggc agcctcttta acatctagag actagatggt gcaaaattag 360
 gactcatttg tccattatat acacnatata caaagcaaaa caaatgcac aanacataca 420
 gaacaagagt tcctgaaaat gtgcaattat naacacactg gcacadaacc nttcgactt 480
 ccttctctcc canctcctct aaaccactga ataagcacag acantaatat acngctcaaa 540
 gagatgggtt aacaattcca ttyccmaaag acagnttttc ctrtgaattt tanntaaaag 600
 tnacttaaag ngtgttattt tactacctct acatttaaca tacattangc acttcnraac 660
 atctagaaag actagatrtt tcaaanaagn acttaatttg tccactatat gtacagtagc 720
 attgaataaa ttgcacacat ataacaatgg ttataatttg aaagtgtctt ctaaatatga 780
 mcattctggc ctaaaaccct tcccatctcc atcaacycag tggacaataa tgctcaagtt 840
 ttcagaagac antcttttct atgantttta angcaaaatg tacaaaatta ttagtttact 900
 aactctactt ttgtcataca ctggcaacct cttaacatc tagaaagact agatgttgta 960
 aaattaggac ttgtttgtcc tttatataca ctatatacac agataagtaa aataaaatgc 1020
 acagacataa gagacaatgg ttaatcttgc ctactgtaa acacantgnt ggcataganc 1080
 tctttgcact tccttctcct gcctcctccc ctgaaccagt gcacaaacac aatgtgtayt 1140
 actcaagagg tggtttggcc attcccccaa agacaacatt tcatatgaat ttttaacaaaa 1200
 agatattttac aaaatgtatt attttactac ntctactttt aacatatatc aggcacttca 1260
 gaacatctag aaagactaga tatttcaaaa aaatacttag cattgtcaac gatatacata 1320

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gtagtgagga ataaaatgca cacaaaacaa tggttataat atgaaaatgt cttctaarta 1380
tgaccagtct ggnaaagaac cttcttctct tcattctcac gccttctgct ccatgkcctc 1440
taaccactg aatgaacgtg gtsgtgtntg ttgctcctgg tgtcacttct agagctcgtc 1500
taacaatttc gtttcnaaaa gtcattttcca gaagacattt rttttctank attttttaaa 1560
anaaaaaagg gcattttacaa gacgtgnnat tttctaactt yttwacatat agaagggcta 1620
gatatagcaa anattttctw ttaaaargtt ggggggnaag ttgagagcag ctttttcata 1680
ttatatacnc gggccttcta taaacggtgg ccagtaaadc ttcccaaagg gtggtgggca 1740
tytccaatgc gccaaatgtg gcntgttatt cyaccatttc tctcttccma catcaaggctc 1800
tggtagaasg aaggccaacc gcccgatggc cngctaaccd ttctaccctg cstygtccgg 1860
gactcygctc accttctagg ccgtttaagg cctttgtccr tcattnctgg catngtcagg 1920
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<223> n is a, c, g or t

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acttttctgt tcctatgtta aacaatactg agaccaagca aaaataactt agctacttgc 120
tccaggaaat acytgtctct ggaagataag actgtgaacc aactaaaata gcttacttat 180
caagactaac agcttactca tcaaaactcg tttcaagacc ctgcctcac tgtgcccacc 240
aatccaaagc tattatgtca taaactctgc ccaatcccaa ccagttcccc gccttgcaag 300
accacctta aatcaccca gcccgagccc taaaacccta taaataatcc tncctaatt 360
tttccatttt gagacactac taagactctg tatctatgtc aaggtgatgt tcttccttac 420

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 gataaaagtt gcaaataact ttattgttca tttcaggaac ttcctaaaaa acccatcaac 180
 tcttcaatag aaagcatcaa acgacagttt atccccaaga ctctttgaaa cccttgccctc 240
 aaaaccctca ccttgctgtg tctgtgtcca ccaatcctaa actattatat catgatcctt 300
 acccaatcct aatcaagccc ctacattgaa agacctgcct taaatcagac tccaaaatct 360
 caataaatat cctgactttg ccctccctcc tctgagacac tactaagact ctgtaagggtg 420
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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 acncagtnaa ctgaaatata aaatgagact cngattttgn taaanattta tnattttgac 120
 cacatctaatt natttctatc ttttrtcycaa ttatattaga ttatsagacc tacgcttctt 180
 ttactagta tcagcacttt tatttttnata tttwttttcc actcattttt aataaataan 240
 ngrnaaaatg caataaaata ktcatatant 270

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<223> mer112

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<223> n is a, c, g or t

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acttaccctt actatatgta atgcactctg atatttttcta ttctattcta ttctatttta 180

tttttttttaa aaaaaaatgc tggttataac ccactaaatt gatttcataa cccactaatt 240

tttgggtcac racctgcagt ttgaaaaaca ctgctctaga a 281

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<223> mer113

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atatttttta aaaggaaact ttatatcact accataaatg gaaaaccagt atcacttgcc 180

ataaatagaa ggtaaccata aaaataaatt acaatgaaaa caaaacaatg ttatttaaatt 240

ctagctagat actgttgccct gcctactgca aggctctgag cctgaggcct gctctctctt 300

tgttaaaaag agagattagc aagtgttaga gaggtgttaa agacatacta agcaccaaac 360

tgagactttc tccttgatgt aatcagaagg attgaaagag aattgaaaag ggaataactt 420

tctcactatg tgattcaatg ttattttaatg ccatatccat gtntaccta aaatcatctt 480

taaataccac cagtgggtaca tatcccacac tttgggaaa 519

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 <223> n is a, c, g or t

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<220>
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 <223> n is a, c, g or t

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 aatattctct ctataggtgc tgaggtagct ggtaagctca gagcaaattc tactaaatgg 120
 argatattbt caattttaat ttttttttta ttgaaatgtg taaatatattc agcccaaata 180
 tttttatagg tattatcttt ttttgtctcc attcagaata cttttctttg acaaataattt 240
 ttacaagaca aaactcatca aataaattgt ctctatttat gattcttttg aatattttac 300

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caaatttaga tgctgcaaaa ttataggcct tctcaatttt attccattct agtacagaat 360
ataaatttat ccaattaaaa atagaagctc catcaaaaaga ttcttcccat aagttaagat 420
attccaaagt acaattatag aattatagaa ttcaaaaatt aaatcttgta tacacatttg 480
agctctcatt atttaatttg ttcagttcct cccttgmttt tgtaggaata aatttcaatg 540
tctttctgtg tggcaagctt tgttttnaat aattacaatt ynctaaaact ttaaaaagct 600
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<223> n is a, c, g or t

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<223> n is a, c, g or t

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<223> n is a, c, g or t

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<400> 305
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ggggccaagg ggatatgccc accygaaayc catgcccccc tttctagacc acgctccagg 120
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ccytthccct aggtctgtcc tccagagggg ggaccgtgcc accagtgtgg gcacccctag 240
gcctgagaga tggccaaggg gtagctgttt gtaggggggt tagntgtgga cagagcttgg 300
acatgcgggc tgggggtgtcc acatacatgc anaggaggcc ctttatggtg taggatggag 360
cygggggtgg gaagagaagg gggagtaggc cagggggccag gggctggctc tccccaggc 420
aggctgcat gttctggcat ggaactccaa ggagtctgag aattctaaat ttgaacctgg 480
ccttcagggt cattatgaag gtatatttgt caaggtagga gaatagaaca tattttaatt 540
taacagtttg ttagcttgat ttataacttt taaatattta gacatatggt atgtgggcct 600
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aatttcatat ggttcaacct aata 84

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<212> DNA
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<223> mer117

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<223> n is a, c, g or t

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tgagtgctg tgttgagaag gattctgagg ctgyatctgg gctcagtggg aaagagtgct 120
gtgattgatt agtgatgtct gccatgggca caggaggggg aagtagcagc anatatgcta 180

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tgtatttgcc atccctg

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 <222> (1)..(717)
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 <223> n is a, c, g or t

<220>
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 <223> n is a, c, g or t

<220>
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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 aatcagtatc atacttcatg catgttacat ctagacctac atatatacaa atttaagagt 120
 aatatgaatt gtttaatat gcaaaatggt cctcagctac catgtgcaac tgttgatgaat 180
 actgtgctaa tttgtgagta cctctggaac cacaaattgg aacatgaaga gaagcaagaa 240
 aatggacact tagcactact gggaaatgat actttgttaa gttatgcaag aatctattgc 300
 attcatgcta tctgaggaga ggaaggattt gacaagttaa ttaatttggt ttcttttctc 360
 ttacctaatg gcttctgctg ctcaaactct ccctacactc taaagcagtg tctatctctg 420
 acgtcancag cagcggcaca acccacaac cttcatggca tttggacaca gtcacncctt 480
 ttgttttgag gacanagggc aagagatgtg gagaagcatt tccctggggc ctgaayagtg 540
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 agatcccaag tgacagaggt acccatgtgt tctttattta ataaatgtat gtgtgtttgt 660
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<210> 309
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 <212> DNA
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 <222> (1)..(508)
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 <223> n is a, c, g or t

<400> 309
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 atacctaaca gttcyattta ttaagtagtt aggtccaaac aacttaataa gtattttatgt 180
 cctaacaact tagtagccat ttgaaaaaat aatacacata aattgaaaga aaaaaaaaaa 240
 atatttttat ttcatttcta aataaccaca attacttact aatgggatgt gtgtgcctgt 300
 tgggcactgc acaacttctc aaaccttgga atcagattgg aactgccac cctcatttcc 360
 tgttccacat tgattgnttt tcacatagta cttgcttttt atcacagcaa cactgaaaa 420
 cccagcttca caaagatatg atatcatcaa aaggaatgta gcacacatga tctaattgtg 480
 aaactgtgaa ctacctcaag ctagtagt 508

<210> 310
 <211> 1126
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(1126)
 <223> mer11a

<400> 310
 tgttgcggga agtcaggga cccgaatgga gggaccggct ggagccrygg cagaggaaca 60
 taaattgtga agatttcatt ttaatatgga cttttatcag ttcccaatta atacttttat 120
 aatttcttat gcctgtcttt actgcaatct ctgaacataa attgtgaaga tttcatttta 180
 atatggacat ttatcagttc ccaaataata cttttataat ttcttatgcc tgtctttact 240
 ttaatctctt aatcctgtta tcttcgtaag ctgaggatgt acgtcacctc aggaccactg 300
 tgataattgt gttaactgta caaattgatt gtaaaacatg tgtgtttgaa caatatgaaa 360
 tcagtgcacc ttgaaaaaga acagaataac agcgatttta gggaacaagg gaagacaacc 420

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ataaggtctg	actgcctgca	gggtcgggca	aaatagagcc	atatttttct	tcttgagag	480
agcctataaa	tggacgtgca	agtaggraag	ataticgctaa	attcttttcc	tagcaaggaa	540
tattaataat	taataccctg	ggaaaggaat	gcattcctgg	ggggaggtct	ataaacggcc	600
gctctgggaa	tgtctgtctt	atgcagttga	gataaggact	gaaatacgcc	ctgggtctcct	660
gcagtaccct	caggcttact	aggggtgggga	aaaaaccccg	ccctggtaaa	tttgtggtca	720
gactggttct	ctgctctcga	accctgtttt	ctgttgttta	agatgtttat	caagacaata	780
ygtgcaccgc	tgaacataga	cccttatcag	tagttctgat	tttgcccttg	tcctgtttcc	840
tcagaagcat	gtgatctttg	ttctcctttt	tgccctttga	agcatgtgat	cttgtgacct	900
actccctgtt	cttacacccc	ctcccctttt	gaaatcctta	ataaaaactt	gctggttttg	960
aggctcaggt	gggcatcacg	gtcctaccga	tatgtgatgt	caccccygga	ggcccagctg	1020
taaaattcct	ctctttgtac	tcctttctct	tattttctcag	ccrgccgaca	cttatggaaa	1080
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<210> 311
 <211> 1096
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(1096)
 <223> mer11b

<220>
 <221> misc_feature
 <222> (599)..(599)
 <223> n is a, c, g or t

<400>	311	
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ttatgcctgt	ctttactgca	atctctaaac ataaattgtg aagatttcat ggacacttat 180
cacttcccca	atcaataccc	ttgtgatttc ctatgcctgt ctttacttta atctcttaat 240
cctgtcatct	tcrtaaagctt	catgagctga ggatgtatgt cgcctcagga ccctgtgatr 300
attgcgttaa	ctgcacaaat	tgtttgtaca gcatgtgtgt ttgaacaata tgaaatctgg 360
gcaccttgaa	aaaagaacag	gataacagca attgttcagg gaacaagaga gataacctta 420
aactctgact	gccggtgagc	crggcrgaac agagccatat ttctcttctt tcaaaagcaa 480
atgggagaaa	tatcgctgaa	ttctttttct cagcaaggaa catccctgag aaagagaatg 540
cgyacctagg	ggtaggyctc	tgaaatggcc cccctgggag tggcctgtct tttatggtn 600

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aaactgcagg gatgaaataa rccccagtct cccatagcgc tcccaggctt attaggawga 660
ggaaattccc gcctaataaa ttttggtcag accggttgtc tgctctcaaa accctgtctc 720
ctgataagat gttatcaatg acaatgcgtg cccgaaactt cattagcaat ttttaatttcg 780
ccccggtcct gtggtcctgt gatctcgccc tgcctccayt tgccttgtga tattctatta 840
ccttgtgaag tacgtgatct ctgtgaccca caccctattc gtacactccc tccccttttg 900
aaaatcccta ataaaaactt gctgggttttt gcggcttgtg gggcatcacg gaacctaccg 960
acatgtgatg tctcccccg atccccagct ttaaaatttc tctcttttgt actctgtccc 1020
tttatttctc aagccagccg acrcctaggg aaaatagaaa agaacctacg tgattatcgg 1080
ggcaggttcc ccgata 1096

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<210> 312
<211> 1071
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(1071)
<223> mer11c

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<220>
<221> misc_feature
<222> (563)..(563)
<223> n is a, c, g or t

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<400> 312
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ttatgcctgt ctttactgca atctctaaac ataaattgta aagatttcat ggacacttat 180
cacttcccca atcaataccc ttgtgatttc ctatgcctgt ctttacttta atctcttaat 240
cctgtcagct gaggaggatg tatatcgctt caggaccctg taataattgc attaactgca 300
caaattgtac agcatgtgtg tttgagcaat atgaaatgtg ggcaccttga aaaaagaaca 360
ggataacagc aattgttcag ggaataagag agataacctt aaactctgac tgccggtgag 420
ccaggcagaa cagagccata tttctcttct ttcaaaagca aatgggagaa atatcgctga 480
attctttttc tcagcatgga acatccctga gaaagagaat gcgcacctr gggtaggtct 540
ctgaactggc ccccctgggc gtngcctgtc tcttatggc gagactgcag rggtgaaata 600
gactccagtc tcccatagcg ctcccaggct tattaggaag aggaaattcc cgcctaataa 660
atthtgggtca gaccggttga tctcaaaacc ctgtctcctg ataagatgtt atcaatgaca 720
atggtgcccc aaacttcatt agcaatttta atttcgcctc ggtcctgtgg tcctgtgatc 780

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30307CNT1.ST25

tcgccctgcc tccacttgcc ttgtgatatt ctattaccyt gttaagtact tgatgtctgt	840
cacccacacc tattcgaca ctccctcccc ttttgaaaat ccctaataaa aacttgctgg	900
tttttgtggc ttgtggggca tcacggatcc taccaacgtg tgatgtctcc cccggatgcc	960
cagctttaa atttctctct tttgtactct gtccctttat ttctcaagcc agccgacgct	1020
tagggaaaat agaaaagaac ctacgtgatt atcggggcag gtcccccgat a	1071

<210> 313
 <211> 897
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(897)
 <223> mer11d

<400> 313	
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gtaaatacaa aattgcatgc aggatttgtt aaagacaatg ccagggttga ctgccagaac	120
gagccaacag cgcgatgatg gcttccccct gcagagagcc tatgaatgga cgtgcagtca	180
gggaggtttc acatcaccaa gattcctatc ccagaaaagc agatgttcat agctctggga	240
atggaatgag acccttgtgg agagcctata aacggacgca tggggggcgc ctgtccatat	300
ggataagata gggctataaa cgccctcatc ttgccacggc tcttctaggc ctctttaggg	360
ttaaggcata ctcccttctg agaatttctg gtctaaccgg ttgtctagct tcacgtcctg	420
tttccatgga ttgtttgtaa ccagcttttg ttgcaattgt tactgctgat taatatcttg	480
ctaatacatg gttatggaaa gaytgtgttt ctgttttaag gctctgttag aaattactga	540
cgcacacact atattgtaaa ttcttatctc tgtatactgt acttctacat acaaattgtac	600
tgtacttcta catacaaatg ttatgttaaa gaattacttc atcccatgt gaccatctca	660
cctcataatc aaatgaccct aaatccctca ctaacctacc cccgccctca ctaaacttaa	720
taataaatgc tggatatatc agtgcattgt tggcaccgtg ggaccagaag gcggtgaccc	780
ccctggaccc agctttcact atcttgtgtg tgtctattat ttctcaacct gccgatccgc	840
ctaggagcaa agagagagcc ccgttgcatc gcgggctgct ggccagatcc cgcaata	897

<210> 314
 <211> 467
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(467)

<223> mer1a

<400> 314

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gctgcacagc aggaggtgag cggcgggcca gtgagcgaag cttcatctgt akttacagcc      60
gctccccatc actcgcatta ccgcctgagc tccacctcct gtcagatcag cgggtggcact      120
agattctcat aggagcgcga accctattgt gaactgcgca tgcgagggat ctaggttgcg      180
cgctccttat gagaatctaa tgcctgatga tctgtcgtg tctcccatca ccccagatg      240
ggaccgtcta gttgcaggaa aacaagctca gggctccac tgattctaca ttatggtgag      300
ttgtrtaatt atttcattat atattacaat gtaataataa tagaaataaa gtgcacaata      360
aatgtaatgc acttgaatca tcccgaacc atcccccccc cctgggtccgt ggaaaaattg      420
tcttcacga aaccggtccc tggtgccaaa aagggtgggg accactg      467

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<210> 315

<211> 337

<212> DNA

<213> Homo sapiens

<220>

<221> repeat_region

<222> (1)..(337)

<223> mer1b

<400> 315

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caggggtccc caacccccgg gccgcggacc ggtaccggtc cgtggcctgt taggaacygg      60
gctgcacagc aggaggtgag cggcgggcca gtgagcatta ccgcctgagc tccgcctcct      120
gtcagatcag cggcggcatt agattctcat aggagcgcga accctattgt gaactgcgca      180
tgcgagggat ctaggttgcg cactccttat gagaatctaa tgcctgatga tctgaggtgg      240
aacagtttca tcccgaacc atccccgcc cccggtccgt ggaaaaattg tcttcacga      300
aaccggtccc tggtgccaaa aagggtgggg accactg      337

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<210> 316

<211> 345

<212> DNA

<213> Homo sapiens

<220>

<221> repeat_region

<222> (1)..(345)

<223> mer2

<220>

<221> misc_feature

<222> (81)..(81)

<223> n is a, c, g or t

30307CNT1.ST25

<400> 316
 cagtcggccc tccgtatccg tgggttccac atccgtggat tcaaccaacc gcggatcgaa 60
 aatattcaga aaaaaaattg natgggttgcg tctgtactga acatgtacag acttttttcc 120
 ttgtcattat tccctaaaca atacagtata acaactatTTT acatagcatt tacattgtat 180
 taggtattat aagtaatcta gagatgattt aaagtatacg ggaggatgtg cgtaggttat 240
 atgcaaatac tacgccattt tatatcaggg acttgagcat ccgcggattt tggtatccgc 300
 ggggggtcct ggaaccaatc cccacaggat accgagggac gactg 345

<210> 317
 <211> 218
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(218)
 <223> mer20

<400> 317
 cagtggttct caaccggggg tgattttgcc cccagggga catttggcaa tgtctggaga 60
 catttttggt tgtcacaact gggggggggg ratgctactg gcatctagtg ggtagaggcc 120
 agggatgctg ctaaacaatcc tacaatgcac aggacagccc ccacaacaaa gaattatccg 180
 gcccaaaatg tcgatagtgc caaggttgag aaaccctg 218

<210> 318
 <211> 798
 <212> DNA
 <213> Homo sapiens

<220>
 <221> rerpeat_region
 <222> (1)..(798)
 <223> mer20b

<220>
 <221> misc_feature
 <222> (145)..(145)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (437)..(437)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (525)..(525)
 <223> n is a, c, g or t

30307CNT1.ST25

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<400> 318
cagtgggttct caactaggat tgtattaccc cctaggggac atttggcaat gtctggagac      60
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gggatgctaa acatcctaca agcantgcac aggacagtcc cccacaacaa agaattgtcc      180
tgcatcccac atgactttca aatgtcccac tagacattca tgtaggtgaa aaaacctgtt      240
tataattatc tgagcctaga acctaactct gttttacata taaacacaaa gtatTTTTTg      300
catagTTTTa atatacactg aTTTTtctag gaatgcaact acvattgtat gtaaattgag      360
ggaagattgt actttgtttt gtttagaact ttaccaaaga gttgttcacc attttgaaa      420
atcatatcac taatggncaa tactcgctca tggatattga gttgccaata caacacacct      480
gtatcagtct gcatttgtag ctgtcacatt cacggtgatt ctatngtata ggtgcaagca      540
tctgactact tcattatgtc ttctagtgtg gtcatgcctg agcatttaca tattgaaata      600
catattatTTt tattataaat tacttttcctt ttttctcttt tatattacag ttagagcatt      660
atattgattt tttttaaaat taatgtgtat aggtagggtta tattatctat gaatttcatt      720
tcaggataaa taaaagaggc attacaaaat atttgttata aaaaggggta ttgggtctga      780
tagggttgag aaccactg                                          798

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<210> 319
<211> 933
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(933)
<223> mer21

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<220>
<221> misc_feature
<222> (226)..(226)
<223> n is a, c, g or t

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<220>
<221> misc_feature
<222> (580)..(580)
<223> n is a, c, g or t

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<220>
<221> misc_feature
<222> (608)..(609)
<223> n is a, c, g or t

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<400> 319
gccctyctrt tkcagraaaa cctctctcaa accatgtttt ycctctgcts tcataccacg      60

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acaacagtcg tcaacacaga agacttctgt gaccaaagtgt gtggaggatt ttccccacac	120
accaagcagc agacaccagc tgggcgtcct ccaaytcagt tccgacactg tctacctgga	180
gatagcgtca gatccacag gttgaggtct cagtcccaa gactgncccc accttcagay	240
acagttgcaa gyccgggyct ctggaacttc tgaccaactg gcttcaartt ggggttccca	300
cgacacctct ttaggttcga ytaatttgct agagtggytc aaaaaactca rrgaaacact	360
tattawgttt actggtttat taatagatga ttttcaaag gatacagatg aagagataca	420
tacggggcgg tctggaagrk cccagcgcag gagcttccgt cytgatagrr ttggggttac	480
accctccaga ttcttcacct tctgtyagcc tccacgtgtt cagctctcca gaagctcyct	540
gaaccctgtc ctttgggcct tttatggaga ytcattggn tgtccatgac tgaagcatgg	600
acgaytgnaa waatgtgatt ggrcaaaaag ggtctgatct aatcccagca aggyctgtcc	660
agattcttct tgggtctctt gtgcagcatt ccttcctcca gggatatggg caggaccycc	720
tctggaatga gggctttacg acccacaatc agattataga gtcctgcctt gggcggmtga	780
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attatagcga aagactgtaa ccatggtcac gtgagttatg gacaagaacc atggacaaaa	900
acacatatac aatcatatcc cacctccaa cgc	933

<210> 320
 <211> 795
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(795)
 <223> mer21b

<220>
 <221> misc_feature
 <222> (404)..(404)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (408)..(409)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (436)..(437)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (546)..(546)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (672)..(672)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (674)..(674)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (717)..(717)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (722)..(722)

<223> n is a, c, g or t

<400> 320

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wctacctrga gatagcgtca gatccccacag gtttaagggc tcagtccac aagactgccc	180
ccacttcaga trccagtcgc aagtctrngt tktcaccgt acttctgacc aactggctat	240
aaattgttcc cacgaccct ctttaggttc gattaatttg ctagaatrgc tcacaraact	300
cagggaaaca cttatatatta ycggtttatt ataaaggata ttacaaagga tacagatgaa	360
caaccagatg aagagatrca tagggcgagg tmtgggagag tccnggggnc aggagcttcc	420
gtgccctctc tggstnnrcc accttccwgg cacctccacg tgttcaccaa cccggaagct	480
ctccgaaccc tgtccttttg ggtttttatg gaggcttcat tacgtaggca tgaatgatta	540
catcantggc cattgattat caactcaacc tycagcyct ctccyctccc cagagggttg	600
agggtggggc tgaaagttcc aaccytctaa tctgccttgg tctttctr gc gaccagcycc	660
catccwgrag cntnctaggg gctgcccrc akagatcgmc tcattagmac aaaagrnrt	720
ynctattacc caggarattc caagggtttt aggagytctg tgtcaggaac cgggggtcaaa	780
gaccaaatat tagat	795

<210> 321

<211> 1503

<212> DNA

<213> Homo sapiens

<220>

<221> repeat_region
 <222> (1)..(1503)
 <223> mer22

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<400> 321
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ccttctagga aaggcgggtg tgcattccac ctgcacttcc tctctgattc ttgagggccca    120
accgcttcct ccgctcctgg ggaaagtgcc ttctagcacc gaatcttttg gctgccacgg      180
atgtcagggg gccaacggga ctgggttttg gctgggtgca ggggaggttg cgtcaggggt      240
actagccggc ggcgggctgg ggggtggggtg tactttgtcc aaactcccgg ctcctctggc      300
gggcctccct gaacgtggcg tggactcgcg cacaggccct gtctcgagg ttttcagggt      360
cgcttggtt ttcctccgct ttgtggggca ggtctccagt gccccggcg cacgcctgga      420
catcactgtc cgtctcgctg tcgcccctac ggcctcaaag acacacgctg cctgcatgtg      480
ctcttggggg acgacagtgc acatgtggac aactggctc cagctcggac tcgcctctgt      540
ctctctttgc ccgtgtcgcc ggaagccgcc tcgggttgcc ggagccctcg ggccttgagg      600
atgaaggcag gccctgtc ctgccaggaa ggaggaggc agtgggctca tgggtcgggtg      660
cctttgcagc cgacagcacg tgcggccctg gggatcttcc tgtgccccgg cgagaccctt      720
tccgcctcac tgcatggaa cccattccc gatcaccgc tgggatccat catcggactc      780
caagaggagt ccgcgagcc agccggcacc ccgaagctc tccttcagcg ggaaccgaag      840
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ccgcaggccc ctctggcagt cctcttccca cccgccgcct cggcttcgcc gccgccgccg      960
caacctccag caccgcccc caggccccgc agccgccgtc gccgccattt tttaaagggt    1020
cgcagcctga ctctgaggag taaggggggg tggagcgggg gaggcgtcg ccagcatgcg    1080
cgagcccag ccgcccgttg ggtcacagt aaagccaccg ttgcccgggg atgggtccct    1140
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cctggccagg gcagttacca ggacgggtct ggaggccggg attcgaggag ggtccagcag    1260
caggaagaaa cccagggagg aagaaacctc agacagatcg ccggcgaggc agcgcgggat    1320
cccagcctca ggcgtgcg cgacggtgtg gggtagtgt cccaaaagt ggagcccttg    1380
tgatgacgag cacaggtccg cctgctgtgc cgtgggcggc tctctaccg gtggctctca    1440
gtcgcggaga gcagaacctg cagcttcagg ggctgctgc ggagggtgtt ccctgctgta    1500
cgt                                                                    1503

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<210> 322
 <211> 434
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(434)
 <223> mer28

<220>
 <221> misc_feature
 <222> (122)..(122)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (132)..(132)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (382)..(382)
 <223> n is a, c, g or t

<400> 322
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 cntgaagacg angaggatga agacctttat gatgatccac ttccacttaa tgaatagtaa 180
 atatattttc tcttccttat gattttctta ataacatttt cttttctcta gcttacttta 240
 ttgtaagaat acggtatata atacatataa catacaaaat atgtgttaat cgactgttta 300
 tgttatcggg aaggcttcca gtcaacagta ggctattagt agttaagttt tkggggagtc 360
 aaaagttata cgtggatttt tnactgcgcg gggggtcagc gccctaacc cccgcgttgt 420
 tcaaggggtca actg 434

<210> 323
 <211> 209
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(209)
 <223> mer3

<400> 323
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 tacggtagcc actagccaca tgtggctayt gagcacttga aatgtggyta gtgcgactga 120
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 cccamaaaaa ttcataatg ttttaagaaa gtttacgaat ttgtgttggg ccgcattcaa 180
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accctcacc ctgctccttg gctataaatt cccacttgcc catgctgtat tcggagttga	360
gcccaatctc tctccccac tgcaaaatcc cattgcagtg gtccctgtac ctatcgcaat	420
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ggtttagcaa gaatccccct acccttgatg tctcctctta gtaattttcc atccactgac	300
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<223> n is a, c, g or t

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 <223> n is a, c, g or t

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<223> n is a, c, g or t

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ctcaggagaa actattttaac cagagcctaa cctgttagag tttwtcaga gcctaaccga	600
cctgggggaa gggaaatacc caactccagc cccctctagc catcctgtcc cacctaaagg	660
gagaaaaaaa gctaagaaac acttgtgaag ttcacagycc agngcacag gctcactaaa	720
agactgagaa ctaatcatag gactatagaa cacttcctc cccncatac cttaccacca	780
cattactaaa agcctattta caacagttcc ttttaccag tacatcatgt ccggctttca	840
acaaaaaatt acaaggcata ctaaaaggca aaaaaaaaa acacagtttg aagagacaga	900
gcaagcatca gaaccagact cagatatgac agggatgttg gaattatcag actgggaatt	960
taaaataact atgattaata cgctaagggc tctaattgaa aaagtggaca acatgcaaga	1020
acagatgagt aatgtaagca gagagatgga aactctaaga gaagaatcaa aagaaaacgc	1080
tagaaatcaa aacat	1095

<210> 334

<211> 1197

<212> DNA
 <213> Homo sapiens

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 <223> l1mcb_5

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 <222> (11)..(11)
 <223> n is a, c, g or t

<220>
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 <222> (52)..(52)
 <223> n is a, c, g or t

<220>
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 <222> (123)..(123)
 <223> n is a, c, g or t

<220>
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 <222> (288)..(288)
 <223> n is a, c, g or t

<220>
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 <222> (373)..(373)
 <223> n is a, c, g or t

<220>
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 <222> (755)..(755)
 <223> n is a, c, g or t

<400> 334
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 cagaaaaatc aatgactttt cttagatcca taagagaagt gaggtcacag ggcaaactgt 120
 cancctgaaa tctggagaga caggcgcatg cagagaatca cagcagagct ctgctttcct 180
 gaagcagaag cctctggggag cacaagctgg taggaaaact taaatggtaa ttttggcaaa 240
 ttgctagagg ctgagtgtgg actagtttga gagtaagaaa ttctcgnggg cccagtctag 300
 gggaacctcc acactttcgt gggctttacc tccaggagtc ccactagttt ctcacagtga 360
 agatccgaga aanttcgctt cacggctctg gcagggggag gggaaaagca atcattktga 420
 aatacgccca gagtattctc cgtaacaaac tcttgcccta caggagaaaa tactttgcca 480
 gagccttatc ctagcttttag ggaagggtaa tcacccaact ccagccccct ctagccttcc 540

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tgtctcacct aaagggagaa aaaaagctaa gaaacacttg tgaagggtcac agcccagggga	600
ctcaggccca ctaaaagact gagatttaat cataggatta tagaacgttt cccttcccm	660
ataccttacc accacatcaa caggggtcca gtataataac aatggattac agctgaaaga	720
actgcaaaac mcagactcta tttaagaagg agctnctagg gaaacccaaa gacaggagag	780
gagacaaaaa caaggacacc ggagtraagt ttagcctctg acacctacag ctacagcaaa	840
cagtaaacac agtctaactc ttagccagat aaacataaaa cctcacatta aaggcctatt	900
tacttcagtt ccttttacc agtacatcat gtccggcttt caacaaaaaa ttacaaggca	960
tactaaaagg caaaaaaaaa aaacacagtt tgaagagaca gagcaagcat cagaaccaga	1020
ctcagatatg acagggatgt tggaattatc agactgggaa tttaaataa ctatgattaa	1080
tacgctaagg gctctaattg aaaaagtgga caacatgcaa gaacagatga gtaatgtaag	1140
cagagagatg gaaactctaa gagaagaatc aaaagaaaac gctagaaatc aaaacat	1197

<210> 335
 <211> 1536
 <212> DNA
 <213> Homo sapiens

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 <222> (1)..(1536)
 <223> 11mcc_5

<220>
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 <223> n is a, c, g or t

<220>
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 <222> (513)..(514)
 <223> n is a, c, g or t

<220>
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 <222> (521)..(521)
 <223> n is a, c, g or t

<220>
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 <222> (525)..(525)
 <223> n is a, c, g or t

<220>
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 <222> (556)..(557)
 <223> n is a, c, g or t

<220>
<221> misc_feature
<222> (567)..(567)
<223> n is a, c, g or t

<220>
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<222> (575)..(575)
<223> n is a, c, g or t

<220>
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<222> (585)..(586)
<223> n is a, c, g or t

<220>
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<222> (589)..(589)
<223> n is a, c, g or t

<220>
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<222> (689)..(689)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (692)..(692)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (709)..(709)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (711)..(711)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (718)..(718)
<223> n is a, c, g or t

<220>
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<222> (725)..(726)
<223> n is a, c, g or t

<220>

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<222> (731)..(731)
<223> n is a, c, g or t

<220>
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<223> n is a, c, g or t

<220>
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<222> (768)..(768)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (917)..(917)
<223> n is a, c, g or t

<220>
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<222> (982)..(983)
<223> n is a, c, g or t

<220>
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<222> (985)..(986)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (988)..(989)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (1336)..(1336)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (1338)..(1338)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (1347)..(1347)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (1482)..(1482)
<223> n is a, c, g or t

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<400> 335
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gctcccatcc taacaatrag aaaaaaagcc agataatcta caaaatyata cttttcttga      120
gcccatcaga gagctgaggt cacaaggcaa ccaagtaaac tgaattccaa agagtgacaa      180
gccctccaa ggagaracag gacacaygaa ctgtttcacc tttggcagag cataggagga      240
agaggtggcc accataaaag caggttaagaa gaaatcagct aaaattttaa taaattctta      300
aaggccaagt gtgggctagt gtgwcagttt agaaagctgg gagccccaga cacaaggga      360
gtttgcactc acttgcaagc tcttttccat gggcctccac caggtgctca tgagaaagac      420
tgggggcagg gcaggagact gaagaaagcc ctcctcagkg gcacaggcat gcaggaggtg      480
atcggctgcn gctgggggac aggaacgaag ccnncctcat nttncagaa ctttcttycc      540
yaaagcaaaa gccttnngct rctgggntga saggnagcaa acccnnttnc tcccagggcc      600
kwrgrcaara cactmtwsyt tytysrgaag mggtargagc yaaaccwtct gattctgggg      660
gaagaacaga agcaaaagcc ttctscycny gngraagggc agrraacwnt ntyaggynca      720
ggatnntgca ntgatacaaa ncagaggtcw gctactactg ggagaggnac aggtcccatc      780
ccaaccacag atacaaggag agtttgactg ccatggagag aggggcagga aactgagaa      840
agccccactc ctgaggcca ggcgcacagg gcctgcctaa gactgaggct ggaccaggac      900
aacagagaac atccctnctc ccaccacaag cctaacaagc ,accaagtaac amagcaacag      960
cagtctacca ctgggggagg gnnannanna tggagagaga ctccctctgt ggcacaggta     1020
tgcagggact actgaaagct gaggggtggag caggaacact gagaaaaacc ctctagcaaa     1080
ccagcccca cactaagcac aaggtaacag cagcccacca ctagaggaat ttgaagcctg     1140
tggtgactg arggtaacca tagcaacaac aaaacccaaa ccagctcaa ctcctgacta     1200
gattgactca acccccacac taaaagccta gcagaagaaa aggcattgcc atttccaggc     1260
ataaatacta ttacctcag tctctactgt tcttctacac ataattgtctr gcattcaata     1320
aaaaattaca agacananaa aaaaagnaaa aaaaaacaac ccattgtcaa gagacaaagc     1380
aatcaacaga accagactca gatatgacac agatgttggg attatcagac aaagaattta     1440
aaataactat gattaatatg ttaaaggatc taatggaaaa anggtagaca acatgcaaga     1500
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<210> 336
<211> 971
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region

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<222> (1)..(971)
 <223> l1md1

<220>
 <221> misc_feature
 <222> (927)..(927)
 <223> n is a, c, g or t

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 attaaaaaat gggcaaaaga catgaagaga catttcacca aagaagatat acaaattggca 120
 aataagcaca tgaaaagatg ttcaacatca ttagctatta gggaaatgca aattaaaacc 180
 acaatgagat atcactacac acctattaga atggctaaaa taaaaataa tgacaayacc 240
 aaatgctggc gaggatgtgg agaaactgga tcactcatac attgctggtg ggaatgtaaa 300
 atggtacagc cactctggaa aatacttttg cagtttctta taaagctaaa catacamtta 360
 ccatatgact cagcaattay actcctaggt atttatccca gagaaatgaa aacttatgtt 420
 cacacaaaaa cttgtacacg aatgttyata gcagctttat tcataatagc cmaaaactgg 480
 aaacaaccca gatgtccttc aacgggtgaa tgggttaaaca aactgtggta tatccatacc 540
 atggaatact actcagccat aaaaaggaat gaactattga tacatgcaac aacctggatg 600
 aatctccaga aaattatgct gagtgaaaaa agccagtctc aaaaggttac atactgtatg 660
 attccattta cataacattc ttgaaatgac aaaattwtag arwtgragar cagattcctg 720
 gttgccaggg gttagggacg ggggtggggg tggagggagg tgggcatssst ggagttccct 780
 gtggtgatgg aaatgttctg tatcttcact gtatcaatgt caatatcctg gttgtgatay 840
 tgtactatag ttttgaaga tgttaccatt gggggaagct ggatgaaggg tacacgggat 900
 ccctctgtat ttttcttac aattgtntgt gagtgtgtaa ttatttcaaa ataaaaagtt 960
 taatttaaaa a 971

<210> 337
 <211> 1088
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(1088)
 <223> l1md2

<220>
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 <222> (840)..(840)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (920)..(920)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (1044)..(1044)
 <223> n is a, c, g or t

<400> 337
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 attaaaaaat gggcaaaaga catgaagaga catttcacca aagaagatat acaaattggca 120
 aataagcaca tgaaaagatg ttcaacatca ttagctatta gggaaatgca aattaaaacc 180
 acaatgagat atcactacac acctattaga atggctaaaa taaaaataa tgacaayacc 240
 aaatgctggc gaggatgtgg agaaactgga tcactcatac attgctggtg ggaatgtaaa 300
 atggtacagc cactctggaa aatagtttgg cagtttctta taaagttaaa catacamtta 360
 ccatatgacc cagcaattay actcctaggt atttatccca gagaaatgaa aacttatgtt 420
 cacacaaaaa cttgtacacg aatgttyata gcagctttat tcataatagc cmaaaactgg 480
 aaacaacca gatgtccttc aacgggtgaa tggtaaaca aactgtggtg tatccatacm 540
 atggaatact attcagccat aaaaaggaat gaactattga tacatgcaac aacctggatg 600
 aatctcaaga acattatgct gagtgaaaaa agccagtctc aaaagggttac atactgtatg 660
 attccattta tatarcattc ttgaaacgac aaaactatag agatggagaa cagattagtg 720
 rttgccaggk gttagggatr caggraggag gtggatgtgr ytataaarrg gtagcatgag 780
 rgaatyttta tggatgatga acwgttctgt atcttgaytg tggtgtrtggg tacacgaatn 840
 tatacatgtg ataaaattgc atagaactaa atayryryry rataagtaca agtaaaactg 900
 gcgaaatctg aataagatwn atggrttgta ycaatgtcaa twtcctgggt ktgatattgt 960
 aytatagttt tccaagatgt taccattggg ggaagctagg tgaagaacac acgggatccc 1020
 yctgtattat ttcttacaat tgtntgtgag tktayaatta tttcaaaata aaaagtttaa 1080
 tttaaaaa 1088

<210> 338
 <211> 1604
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(1604)
 <223> l1md_5

<220>
 <221> misc_feature
 <222> (959)..(959)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (1352)..(1352)
 <223> n is a, c, g or t

<400> 338
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 ttctctccgc taagtacaac taaaaaccct ggacattata tataaaacaa acataagaag 120
 actctgaaag gtggagagaa gaaggcagac cggctaggga cctcgggacc cgaggaacga 180
 cacggtagt agttccctgg gttttctttt tgcctcatat atcccagact tggagctgaa 240
 gaagccggca acccggaac gccaacgggc acagacaaaa aaagcccca caaaagcctg 300
 ctctctctag ccaaaggacc aggaaagggg cagcctagca agacagaaaa cttttagaca 360
 ataaccgctc tactccagcc aaacaccaca gaaaaaactg tggccccacc cccaccacg 420
 ccagcaaagg ccgagtgggg agcctagact tccaccctca ccaggctgta acgaggcgcc 480
 ccaacacctc caccgggatg gtgtcagaga aggccaagta gggagctggg actttcatcc 540
 ccgccaggcg gtaatgaggc ccmcttccc cttgccmctg cgggtgtcagt ggagaccacg 600
 tggggagcct ggacttccac ccccaccggg cagtaatgag gcgcccctcc ccctccctac 660
 tggggtggtg tcagaggagg cctagtggag agtcgggact ttcaccaccg cccagcggtg 720
 atgaagccac ctctctctt tgccmccatg gtgtcagtgg aggccacgtg gggagcagta 780
 atgaggcact cctaccctc ccagccaggg aggtatcagc ggaggcctag tggggagccg 840
 aactcccacc cccgccagc agtaacgagg agcccctccc tcacctcggg tgtcaacgga 900
 ggccgagtgg ggaacctgga cttctacccc cacctggcag taatgaggca gcgcccctnc 960
 ccctcycctg ccggagcggg gtcagaggaa gccggctaaa acagaagggt taaataagat 1020
 ccagagtctc ataacataat acccaaatg tccaggtttc aatcgaaaat cactcgtcat 1080
 accaagaacc aggaaratct caaactgaat gagaaaagac aatcaataga cgccaacacc 1140
 gagatgacag agatgttaga attatctgac aaagatttta aagcagccat cataaaaaat 1200
 gcttcaataa gcaattacga acgtgcttga aacaagaraa aagtagaaa cctcagcaaa 1260
 gaaatagaaa gtctcagcaa agaaatagaa gatataaaga agaaccaaat ggaaatttta 1320
 gaactgaaaa atacaataac cgaaataaaa anctcaatgr atgggctcaa tagcagaatg 1380
 gaggggacag aggaaagaac cagtgaactt gaagatagag caacagaaat taccattct 1440
 gaacaataga gagaaaatag attggaaaaa aaaatggaca gagcctcagg gacctgtggg 1500

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 actataacaa aagatctaac attcgtgtca tcggagtccc agaggagagg aaaaagagrr 1560
 tagtatttga agaaataatg gctgaaaatt tcccaaattt ggca 1604

<210> 339
 <211> 503
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(503)
 <223> 11mde_5

<220>
 <221> misc_feature
 <222> (108)..(110)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (112)..(112)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (269)..(269)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (289)..(289)
 <223> n is a, c, g or t

<220>
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 <222> (290)..(290)
 <223> n is a, c, g or t

<400> 339
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 accaggtggc accagcaaga gggatcctgc cacaacaagc agcctggnnn ancctggaag 120
 cactctcttt ccccatgggc ctgagactcc cctcccctac ccagagacac caggtatgcy 180
 aggcagcact agcaaggggg atcctgccac aacaagcacc tagcccagga agcctcttta 240
 tcccatggg cctgggagac tcccttcnc acccacatcc cctcccctnn cccacctag 300
 agacaccagg cagcctggcc tggggaagct ccttctgccc cctcaggcag caccagcagg 360
 gaccagtggg agccccagta gcaccagata aaccaagcag accaaaatag cactgcaaag 420
 gctctgaaaa ttaaactgtc attggaacca cagcccacaa aaggtaggcc aggacctaca 480

tgctaaacct aaacaggggtg act

503

<210> 340
 <211> 1089
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(1089)
 <223> l1melb_5

<220>
 <221> misc_feature
 <222> (296)..(296)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (670)..(670)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (765)..(765)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (1003)..(1003)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (1058)..(1058)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (1065)..(1065)
 <223> n is a, c, g or t

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 aacaactata aactctggac aaaatacaaa aaacaactac ttgaaggcac tggagagtga 120
 ccaaaagcag gcagaaactg gaggggagtc gacacctgga agaaggggaat wgcacggagt 180
 gagttcccat ttctacggct ttttgctga gagcaggccg cagttggtgc gtcgtacaga 240
 tggctaaaac wtcagtagaa aacccgcggt cttactggct tgaagaacca gagaanagaa 300
 ttcggggcaa ccacagccac tggaaagtga ggggaaaatc ccggaaagga gagagccaga 360

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gagaggatcc ccaaattctg tgtataaact ctgcccaaat ctctggctga cccctgaacc	420
acgcatgcg ggagcagact ccaagcagcc cagctaaaga caaaagaact gaactgagat	480
tggagctgcc gcccaagaaa cagagtttgc agttcgagtc cagccaagyt aactgcctac	540
taaaacaaaa gaaacaacac tctttagaga aaaataacag aatccagagt ctccacaatk	600
taacattcat gatgtccagg atacaatccc aaaattatac magataagaa gaaacagraa	660
aaatgtaatn catccttaag agaaaagaaa ataaaaaccg accctgagat raaccagatg	720
ttggaattaa cagacaagga ctttaaagca rctattataa atatnttcaa tgaaataaaa	780
caaaatatgc tcacaatgaa taaaaggata ggaaatctca gcagagaaat agaaacgata	840
aaaagaacca aatggaaatt ctagaamtga aaaatataat atctgaaaca aaaaattcac	900
tgaatagact taacagcaga atggagatga cagaggaaag agtcagtga cttaaagata	960
gatcaataga agttatacaa tctgaagagc agagagaaaa awnatttawa aaaaaagwgm	1020
akagtctcac aaacatgtgc gacaatatca aaaggctcaa catanatgta attggaatcm	1080
cagaaggag	1089

<210> 341
 <211> 911
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(911)
 <223> 11me2

<220>
 <221> misc_feature
 <222> (647)..(647)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (708)..(708)
 <223> n is a, c, g or t

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attaaaaaat gggcaaaaga cttgaatagg catttcacca aagaagatat acagatggcc	120
aataagcaca tgaaaagatg ctcaacatca ttagtcatca gggaaatgca aattaaaacc	180
acaatgagat accacttcac acccactaga atggctaaaa ttaaaaagac cgacaayaac	240
aagtaytggc gaggatgtgg agcaactrra actcycatac attgctggtg ggaatgtaaa	300
atggtacaac cactttggaa aayagtttgg cagtttctca aaaagttaaa cacgcaccta	360

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ccctatgacc cagcaattcc actcctaggt atttacccaa gagaaatgaa aacatatgtc 420
cacacaaaga cttgtacaag aatgttcata gcagctttat tcataatagc cmmaaagtgg 480
aaacaaccca aatgtccatc aacaggagaa tgaataaaca aattgtggta tatccataca 540
atggaatatt actcagcaat aaaaaggaat gaactaytga tacacgcaac aacatgaacg 600
aatctcgaaa acattatgtt gagcgaaaga agccagacac aaaagantac atactgtatg 660
attccattta tatraaattc wagaacaggc aaaactaatc tataatgnta gaaatcagaa 720
tagtggttgc ctctggkgag ggtraatgac tggraagggr catgaggga ttttctgggg 780
tgatggaaat gttctatatc ttgatcgggg tgggtggttac acgagtgtat acatttgtca 840
aaactcatcg aactgtacac ttaaaatctg tgcattttac tgtatgtaaa ttatayctca 900
attttaaaaa a 911

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<210> 342
<211> 909
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(909)
<223> 11me3a

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<220>
<221> misc_feature
<222> (647)..(647)
<223> n is a, c, g or t

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<220>
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<222> (657)..(658)
<223> n is a, c, g or t

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<220>
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<222> (705)..(705)
<223> n is a, c, g or t

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<400> 342
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aataagcaca tgaaaagatg ctcaacatca ttagtcatca gggaaatgca aattaaaacc 180
acaatgagat accacttcac acccactaga atggctaataa ttaaaaagac cgacaayaac 240
aagtaytggc gaggatgtgg agcaactrra actcycatac attgctggtg ggaatgtaaa 300
atggtacaac cactttggaa aayagtttgg cagtttctac aaaagctaaa cacgcgccta 360

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ccctatgacc cagcaattcc actcctaggt atttacccaa gagaaatgaa aacatatgtc 420
cacacaaaga catgtacaag aatgttcata gcagcattgt tcataatagc caaaaagtgg 480
aaacaacca gatgtccatc aacaggagaa tgaataaaca aattgtggta tatccataca 540
atggaatact actcagcaat aaaaatgaat gaactaytga tacacgcaac aacatgaacg 600
aatctcgaaa acattatgtt gagcgaaaga agccagacac aaaagantac atactgnntg 660
attctatttg cataaaatac aaaaccaggc aaaactaatc aatgntgtta gaagtcagga 720
tagtggttgt tctgggaata gtaatgactg taaggrarca tgagagggtt ttctgggggtg 780
ctggtaatgt tctgtttctt gatctgggtg ctggttacac ggctgtgttc artttgtgaa 840
aattcatyaa gctgtacact tatgatwtat gcayttttat gtatgtatat tatayytcaa 900
taaaaaaaaa 909

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<210> 343
<211> 596
<212> DNA
<213> Homo sapiens

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<223> 11me4

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<220>
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<223> n is a, c, g or t

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<222> (435)..(435)
<223> n is a, c, g or t

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<220>
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<222> (455)..(455)
<223> n is a, c, g or t

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<220>
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<222> (475)..(476)
<223> n is a, c, g or t

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<220>
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<222> (478)..(478)
<223> n is a, c, g or t

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<400> 343

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taggaattta tcctacagac atacttgcaa catgtacaaa atgacatata tacaaagtta	120
ntttattgca gcattatttg taatagcaaa aaaytggaac caacctaaat gtccatcaat	180
aggaaaatgg tttaaataaat tatggtatat ccatacaatg gaatactatg cagctataaa	240
aaagaatgaa gaagatctct atgtactgat atggaatgat ctccaggata tattgtttta	300
gtgaaaaaag caaggtgcaa gaatagtgtg tatagtatgc taccttttgt gtaaaaaaga	360
aggaaaaata aaaatatata tatatatattg cttatatatg tataaaataa ctctggaaaa	420
ataaacaaga aactnataac agtggttgcc tcttntgggg ggaggggaac tgggnngntg	480
ggtggctggg ggacatgtgg gatggacagg gatgggaggg actgactttt cactgtatac	540
ctttttgtac tttgtacttt ttgaaatttt gaaccatgtg aatgtattac ctattc	596

<210> 344
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 <212> DNA
 <213> Homo sapiens

<220>
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 <223> l1mea_5

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 <223> n is a, c, g or t

<220>
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 <223> n is a, c, g or t

<220>
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 <222> (765)..(765)
 <223> n is a, c, g or t

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 <222> (1003)..(1003)
 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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<221> misc_feature
 <222> (1065)..(1065)
 <223> n is a, c, g or t

<400> 344
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 acaaaagcag gcagaaactg gaggggagtc gacacttggga agaaggggagc wgcacggagt 180
 gagttcccat ttctgtggct tttagcctga gagcaggccg cagttggtgc ggcgtacaga 240
 tggctaaaac wtcagtagaa aacccgcggt ctttctggcc tggagaacca gagaantgaa 300
 tctagggcaa ccacagccac tggaaagagt ggggaaaatc ccggaaagga gagagccaga 360
 gagaggatcc ccaaattctg tgtataaact ctgcccaaat ctctggctga cccctgaacc 420
 acgcatgcgc ggagcagact caaagcagcc cagctaaaga caaaagatct gaactgagac 480
 tggagctgcc gcccaagaaa cagagtttgc agttcgagtc cagccaagat aactgcctac 540
 taaaacaaaa gaaacaacac tcattagaga aaaataacag aatccagaat ctccacaatk 600
 taacattcat gatgtccagg atacaatccc aaaattatac macataagaa gaaacagraa 660
 aaatggaatn catccttaag agaaaagaaa atcaaatccg accctgagat raaccagatg 720
 ttggaattaa cagacaagga ttttaaagca rctattataa ctatnttcaa tgaaataaaa 780
 caaaatatgc tcacaatgaa taaaaggata ggaaatctca gcagagaaat agaaacgata 840
 aaaagaacca aatggaaatt ctagaamtga aaaatataat atctgaaaca aaaaattcac 900
 tgaatagact taacagcaga atggagatga cagaggaaag agtaagtga cttaaagata 960
 gatcaataga agttatacaa tgtgaagagc agagagaaaa awnatttawa aaaaaagwgm 1020
 akagtctcac aaacatgttc gacaatatca aatgggtcnaa catanatgta attggaatcm 1080
 cagaaggag 1089

<210> 345
 <211> 2523
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(2523)
 <223> 11mec_5

<220>
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 <222> (6)..(6)
 <223> n is a, c, g or t

<220>

<221> misc_feature
<222> (439)..(439)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (898)..(898)
<223> n is a, c, g or t

<220>
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<222> (948)..(949)
<223> n is a, c, g or t

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<222> (967)..(967)
<223> n is a, c, g or t

<220>
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<222> (1101)..(1101)
<223> n is a, c, g or t

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<221> misc_feature
<222> (1134)..(1134)
<223> n is a, c, g or t

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<222> (1144)..(1144)
<223> n is a, c, g or t

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<221> misc_feature
<222> (1175)..(1176)
<223> n is a, c, g or t

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<222> (1267)..(1267)
<223> n is a, c, g or t

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<223> n is a, c, g or t

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<223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <222> (1992)..(1992)
 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (2494)..(2494)
 <223> n is a, c, g or t

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 aaacaacggt tttcaagaca ttgracatca ggcagcgmag gacagcgatc cctgrgagaa 180
 gggaaacgaa tgagggtgagc cctrtgatcg ccycagctta ctgcctkgag atagttttcca 240
 ggccacggca cagagaggag aaaccaggc agagcccggc ggwctccctg agttgaggag 300
 acggagctga gagtycgrgg aggccaaggc tggctagagt tcgcagggca gaataccaga 360

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cacgaaagga	ttararggaa	caatccccag	agctcacaca	gggccgggaa	tagttcctgt	540
ttccaccagc	cagagtggaa	aacctcataa	ttcacggggc	atcgggtaga	gtactcagaa	600
gggttttgcc	tcagtagcgg	ggaaaaatta	gccctaaact	aaacactgct	ctgggtccac	660
ctaacaaatc	ttaaaagcaa	gcctcgaaaa	gatcaaactg	tttccaagta	acttaactgc	720
atcccagaat	aaagctcaag	aatatttawa	ggaatacaaa	aatatccagc	acccaamaag	780
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aagragntaa	agaaaaacat	gaacataatg	aagaaagagr	tggaagatat	aaaaagaccc	1020
aaatagaact	tctagagatg	aaaawtayaa	trtctgaaat	gaaaaataca	ctggatgaga	1080
ttaacagcag	attagacact	ncagaagaaa	raattagtga	acttgaagac	atancaatag	1140
aaantatcca	aaatgaaata	cagagacaaa	gaaannaaaa	ayagacaaat	aaaataaagc	1200
gtcagtgagc	tgtgggacaa	cttcaagtgg	cctaayacac	gtrtwattgg	agtcaaaaag	1260
aaagganaga	gagaatgagg	yagaagaaat	attggaagaa	acgatagctg	agaattttcc	1320
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aratacagaa	gaaacaacac	atctwgacat	atcatagtca	aatcgyagaa	aaccaaagay	1440
aaagagaaaa	tcttaaaagc	agtcagagar	aaacaacata	ttacgtacag	ggggacaaca	1500
atacaaatta	aagctgactt	tttaccaggc	acagtggagg	ccagaagaca	gtgggatgaw	1560
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atacgggtaa	atataaaaga	natcctttct	tattatttnn	aatttcttta	aaagataatt	1860
ggctgtttan	agmaaaaata	ataacaatgt	attgtggggg	ttataacata	tgtaarcaa	1920
atgtatggca	acaatagcac	aaaggccggn	aggggagaaa	tggaagtata	ytgttgtaag	1980
gttcttatac	tntacgtgaa	gtgggtataat	rtcatttgaa	ggtagactgt	gataagttaa	2040
agatgcatat	tgtaaacctt	agagcaacca	ctaagataac	aaaacaaaga	gttatagcta	2100
ataagccaac	aaaggagata	aaacggaatc	ataaaaaata	cccaattaat	ccaaaaaag	2160
gcanwaaaaa	aaaaatggaa	caaagaamag	atgggacaaa	tagaaaacaa	atagcaarat	2220
gatagattta	aaccaacca	tatcaataat	tacattaaat	ataaatgggc	taaacgctcc	2280

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aattaaaaga cagagattgt cagaatggat aaaaaaacga gacccaaata tatgctgcct	2340
acaagaaacc cacttttaaat ataaagacac aaataggtta aaagtgaaag gatgaaaaat	2400
gatatntcat gttaacgcca tccaaaagaa agctggagta gctatattaa tatcagacga	2460
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agg	2523

<210> 346
 <211> 990
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> 11p2_5

<400> 346	
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aactctggag tctattgaag gcttgcaact tccaggggaa ggcttggatg gtaaattgtg	180
gttaatttcg gtcaatttca gctcttagca cagtagcagc taccatccc ccacccccag	240
ccccgtggca ggcagctgtg cacgtgttcc tggagcagct tgcacacagc ttgcgggagc	300
caggggtgggc aaaaaggatc ctgtcctcca aatatcgggg atctgtgctc tgatcgctga	360
ttgctgcttc tgatcacaga ggtgcagaca aagaggtggc ggccattgtt gtcgcacctc	420
ccyccattgt tgcaagcccc tccccctctg gctgaagtga cttccagggg atttaaaggg	480
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actaggacat tcaaaagcaa ctgcatatac ggggaaaatt agaaagtcac cgtgcatgcc	600
cagggaaagg cacaggctca gaaaagacct gagaagacct taagtttaca cctcaggctg	660
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atgtccagtt ttcaacaaca acaacaaaaa atcacaaggc atacaaagaa acaggaaagt	840
atggcccatt caaaggaaaa aaaataaatc aacagaaact gtccctgaaa aagacctgat	900
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ggaaaacgtg gagaaagtca agaaaatgat	990

<210> 347
 <211> 1727
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(1727)
 <223> l1p5a1

<220>
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 <222> (729)..(729)
 <223> n is a, c, g or t

<400> 347
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 cgcagaaggc aggtgatttc tbcatttcca actgaggtac ccggctcatc tcattgggac 120
 tggtttagaca gtgggtgcag cccacggagg gcgagcagaa gcaggggtggg gcgtcgcctc 180
 acccggaag cgcaaggggt cagggaaactc cctcccctag ccaaggggaag ccgtgagggg 240
 ctgtgccacg aggaacgrtg cattccggcc cagatactat gcttttccca tggctcttcgc 300
 aaccacaga ccaggagatt ccctcgggtg cctacaccac cagggccctg ggtttcaagc 360
 aaaaaactgg gcagccgttt gggcagacac cgagctagct gcaggagttt ttttttttcg 420
 taccacagtg gcgcctggaa cgccagttag acagaactgt tccctccctt ggaaaggggg 480
 ctgaagccag ggagccaagt ggtctagctc agtggtatccc accccacgg agcccagcaa 540
 gctaagatcc actggcttga aattctcgtt gccagcacag cagtctgaag tcgacctggg 600
 atgctcgagc ttggtggggg gaggggcatc cgccattact gaggcttgag taggcggttt 660
 tcccctcaca gtgtaaacaa agccaccagg aagttcgaac tgggcggagc ccaccacagc 720
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 cccagcaggr gtcgacagac acctataca ggagagctcc ggctggcatc tgggtgggtgc 1080
 ccctctggga cgaagcttcc agaggaagga acaggcagca atctttgctg ttctgcagcc 1140
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 aaaaaccaga acgcctcttc tcctccaaag aatcacaact cctcgccagc aagggaacaa 1440
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acaaactcct ccgagctaaa ggagcatggt ctaaccaat gcaaggaagc taagaacctt	1560
gaaaaaagggt tagaggaatt gctaactaga ataaccagtt tagagaagaa cataaatgac	1620
ctgatggagc tgaaaaacac agcatgagaa cttcgtgaag catacacaag tatcaatagc	1680
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<210> 348
 <211> 7678
 <212> DNA
 <213> Homo sapiens

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 <223> 11p_ma2

<220>
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 <223> n is a, c, g or t

<220>
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 <222> (2757)..(2757)
 <223> n is a, c, g or t

<220>
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 <222> (4117)..(4117)
 <223> n is a, c, g or t

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 <223> n is a, c, g or t

<220>
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 <223> n is a, c, g or t

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gatcacagta cctggtttta acttcatatc actgaaagag gactgaaga gggtaggaaa	180
gacagtcttg aattgccgat gccaccactc cyccatkccc gggcagtggc wgwgtggtgt	240
ggagagagaa tctgtgcgct tgggggaggg agagtgcagk gattgtgaga ctttgcattg	300
gaactcagtg ctgccctgtc acagtagaaa gcaaaaccag gcagaactca gctggtgccc	360

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aacttgdata	ccagctcagc	cacagtagga	tagggcacca	rkcagagtcm	tgaggccccc	780
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gctgccttga	aggaaggac	ccagtcctgg	caggatkcac	cacctgctga	ctaaagagcg	900
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wgggggaact	taccaccctg	aagggaaagga	cacaagcctg	gctkgctttt	scayctgctg	1560
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gccttgggtg	agaccagtg	ctrtgctggc	ttcaggtctg	accagcacca	gtcccagtg	1680
tggtggccac	aggggtgctt	gtgtcaccmc	tcccagcttc	aggcagctca	gmacagagag	1740
agagactcca	tttgtttggg	ggraagtaag	ggaagagaac	aagagtctct	gcctggtaat	1800
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agaaccacag	tgttaytggg	cttgggggtgc	cccctaawgc	agatatggct	acatgaccaa	1920
aarcttagat	cayaacaccc	aagtccttcc	aaatacctgg	aaagccttcc	caagaagrat	1980
gggtacaaac	aagcccagac	tgtgaagact	acaataaata	cctaactctt	caatgcccag	2040
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 <223> n is a, c, g or t

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 gagyraacca ctctaccat ggacctctgg aatcctagca gsaggagacc ccwcgaccmc 300
 cayrgacact tgagytggca gggagagctg cttagagaag tggtaggggc agramtccag 360
 cctgtgtgga gcccagaggg tttggtgcag garcatctgt agtggagcac ggccagggay 420
 gcccattccc caaggctcam catgctccca taggagactt tagcccttag ggkaactgty 480
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gcagagagct	ccagcagggc	ggcccccatg	gmcacgcacc	agcctgcatg	ctccctcccc	720
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gncagaaatg	gaattcagaa	tatggatagg	aatgaagatc	atcaagattc	aggagaamgt	1860
cgaaacccaa	tccaaggaak	ctaaggaatc	acaataaaac	gatayaggag	ctgamagaca	1920
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 ccataatcgt gaaggacacc ccagatccta gggaggagaa tgtnggcaaa cagcccctat 180
 gatggcgtcc agctgataaa agtgagtga gccccagtac gcgagagagg cagagagtct 240
 ccctctgtga ctactttttc cactggggat ccgagcaacc caggccaagg gagaacactt 300
 tgttttctccc aagccctgga gctaactggt ggagaggctt ggagatgctg tgagggaaa 360
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 <223> 11pa2

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ctagttcaac	cattgtggaa	gtcagtgtgg	cgattcctca	gggatctaga	actagaaata	360
ccatttgacc	cagccatccc	attactgggt	atatacccaa	aggactataa	atcatgctgc	420
tataaagaca	catgcacacg	tatgtttatt	gcggcactat	tcacaatagc	aaagacttgg	480
aaccaacca	aatgtccaac	aatgatagac	tggattaaga	aaatgtggca	catatacacc	540
atggaatact	atgcagccat	aaaaaatgat	gagttcatgt	cctttgtagg	gacatggatg	600
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 <211> 892
 <212> DNA
 <213> Homo sapiens

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 <223> 11pa7

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acaatgagat	accatctcay	gccagttaga atggcgatca ttaaaaagtc aggaaacaac 240
agatgctgga	gaggatgtgg	agaaatagga atgcttttac actgttggtg ggagtgtaaa 300
ttagttcaac	cattgtggaa	gacagtgtgg cgattcctca aggatctaga accagaaata 360
ccatttgacc	cagcaatccc	attactgggt atatacccaa aggattataa atcattctrc 420
tataaagaca	catgcacacg	tatgtttatt gcagcactat tcacaatagc aaagacttgg 480
aaccaacca	aatgcccac	aatgatagac tggataaaga aaatgtggca catatacacc 540
atggaatact	atgcagccat	aaaaaaggat gagttcatgt cctttgcagg gacatggatg 600
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ctaattgtaga tgacgggttg atgggtgcag caaaccacca tggcacatgt atacctatgt	840
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 <212> DNA
 <213> Homo sapiens

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 <223> l1paxx_5

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gagcatgcta cccagcctgg gaaaccgtgc tttttccacg gaactgtgca acccatggat	300
crgaagatcc cactcrtgaa cccacrccac cagggcctag sgtcccaacc ccggagctgt	360
gcagattctc aacagcctct cagctggaat ctgcttaagc ctaccgagct cccgggggga	420
ggggcgacca gcaccacagc tgcagctgcc tgctgtctaa gccatttgag ctccttgggg	480
gaggggcagc agccagcact gggactcaca actgcctaac acnctaagct ccctgggcag	540
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<400> 357

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aacaagcata tgaaaaaatg ctcaacatca ctaattatca gggaaatgca aatcaaaacc      180
acaatgcrat accatcttac tcctgcaaga atggccataa ttaaaaaatc aaaaaataat      240
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ctagtacaac cactatggaa aacagtatgg agattyccta aagaactaaa agtagaacta      360
ccatttgatc cagcaatccc actactgggt atctacccar argaaaakaa gtcattatay      420
gaaaaagaya cttgcacacr catgtttata gcagcacaat tyrcaattgc aaaaatatgg      480
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<212> DNA
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<222> (1)..(897)
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acaatgcrat accatcttac tcctgcaaga atggccataa ttaaaaaatc aaaaaataat      240
agatgttggc gtggatgtgg tgaaaaggga acacttytac actgctggtg ggaatgtaaa      300
ctagtacaac cactatggaa aacagtatgg agattyccta aagaactaaa agtagaacta      360
ccatttgatc cagcaatccc actactgggt atctacccar argaaaakaa gtcattatay      420
gaaaaagaya cttgcacacr catgtttata gcagcacaat tyrcaattgc aaaaatatgg      480
aaccaacca aatgcccac c aatcaayrag tggataaaga aaatgtgrta tatatatacc      540

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<220>
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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

<220>
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 <223> n is a, c, g or t

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<223> n is a, c, g or t

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<222> (2136)..(2136)

<223> n is a, c, g or t

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<222> (2173)..(2173)

<223> n is a, c, g or t

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 <212> DNA
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gaacycgctc acacaccaag cacattacta ctacaaccag catctgagaa agccakcaca 780
caaagactct ctataaccaa ggaactcata cagagtcttc acccctgaaa gcaccagaa 840
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cagctccaga ggacagaaca aggaccaatg ggtggaagtt acagggaggc agatttcagc 300
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cagggatggt gtaaaaggga tttctgcatt ggatggggga ttggactaga tgacctttaa 480
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ccwctccttc ancctggcca actcctactc gtccttcagg kctcagctca ratgtcacct 180

cctccaggaa gccttccttg acttcccagg ccgagttagg tgccctcctc tgggcccccc 240

cggctcctacc ctgccactct gggttatmat tgtctgtkng cangtctgtc tccccactg 300

gactgtgagc tccgcgaggg cagggactgt gtctgtcttg ttcaccactg tatccccagc 360

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<223> n is a, c, g or t

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 <223> n is a, c, g or t

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caggaaacca acyntcaggc ctcycaaawa gtatcaarga actgaaactc accagatcac	180
yrccatccaga caatgagayr ccagaccct catycatcat gattgcctaa ctgaccacct	240
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gttacatttc ttccctgcta tataaaacccc yaatttttagt yngtcaggga gatggatttg	360
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 <223> lorli

<400> 366
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 tgtgctcagg caggggtgtg atggaggaaa ggcaggagag ctctgccctg gtgctcccgc 420
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 <212> DNA
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<222> (297)..(297)

<223> n is a, c, g or t

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<212> DNA

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<222> (1)..(609)

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<223> n is a, c, g or t

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<222> (113)..(113)

<223> n is a, c, g or t

<400> 369

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 <223> ltr10c

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taaatatattg ccctggcatg cttatactag tccaagcaag cattaggtca tagcctgttc    240
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cctttgttct cctctgcctt tgcctctttt aaaaagttct aagttgctag ccaatcagga    360
caaatacaga atgtgagggtc ctgttccagc caatagaaac tggacacagc agtaggggtg    420
acgcgtcagg ttataaatga ccctgtctcc tttgttcagt gtactctcat ggcaaaactg    480
ctggtgagtg taccctttct gcagaaagta taaawatggc cttgctgaga aaattaaatt    540
tatgttcaag tgctatttct ttacagcacc acaagcattt caaaca                    586

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<210> 372
<211> 513
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(513)
<223> ltr10d

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<400> 372
tgtgggatat gatgagggtt ctcttcaa ataacctgatca atcttttatt ctttaattca    60
tagtaccccc ctccctyctt ttttcytttt tctccttttt tcctttttgc ctttgttaga    120
tgcccaggca cgccacagta ccaggcggtta tcaataccag ctcacattcc tttccttatt    180
tggaaaaaag actaactttc tagctcatta cagacacccc ttcccccttc ctctccgctt    240
tctttttacgt gcccacctta tctaaaaaaa aatcaaatgt ttagccaacc gggattagtt    300
tagattgtat gacccaaccc cagccaatgg ggaaagggtta caagggcagg acttgcattca    360
raaataaagg ctctcgtgcc cctttgttca ggtgtgctct catggcgact ggccaaggag    420
aagcaccctt ctgcgcagaa gtaaaattgc tttgctaaga atcctttggt cgagtgttca    480
atttccttag gatattgagc gttattccta aca                                513

```

```

<210> 373
<211> 684
<212> DNA
<213> Homo sapiens

```

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<220>
<221> repeat_region
<222> (1)..(684)

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<223> ltr11

<400> 373

tgtgtttctg caggatgtac agccctccca gcacggtgct cgcttccta atgccattcc	60
acagtatttg ttgcagagaa ggaaggcagc atgccaggac agatggagac aggactaatt	120
tggcctgagg tatgtaattt tgaacttgag cctctctctg ggactgtaaa actccaaatc	180
aaagctaadc tgagaatata tacatctgaa agatgattag gactgtaaac atctattaat	240
attcaactct gatacaaagt acaagttggt tattcttacc acgcaaggcc aaaaaagggg	300
agaaaaaaaa aaaagcacac agcatatgca ctggaaagtt tcgcttattc aaaacagtat	360
ttgtcaagca cctccagtct ggtgctgcag gggaaacaaa gattaaacag ccaggcggac	420
actgctctgc ttccaagggtg cttacggtct taagaaggag acaagacatg tttataaata	480
gccaaaatgc aaccagaaa aggctaaaaa aactgagag ggagggagaa ataaacgaag	540
caagaggtct ccggaggaag agatgaatga attagcctat taataactcc gtcactgtaa	600
tcccaatgta aagcaagaat tccaaaccag gaaagggtcaa actgaagtat ttgaggaaca	660
caggcgtcgc ctaagccctt caca	684

<210> 374

<211> 877

<212> DNA

<213> Homo sapiens

<220>

<221> repeat_region

<222> (1)..(877)

<223> ltr12

<400> 374

tgtatctagt taatctggtg gggagttgga gaatctttat gtctagctaa gggattgtaa	60
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gtgtctagct cagggtttgt gaatgcacca atcagcactc tgtatctagt taatctggtg	180
gggacttgga gaatctttat gtctagctaa gggattgtga atgcaccaat cggcactctg	240
tatctagctc aaggttgtaa atggaccaat cagcactcta tgtctagctc agtgtttgta	300
aatacaccaa tcgacactct atctagctaa tctagtgggg acgtggagaa cttttgtgtc	360
taactcaggg atgtaaatgc accaatcaga accctgtcaa aatggaccaa tagctctctg	420
taaaacagac tgactttctg taaaatggac caatcagcag gatgtgggtg gggccagata	480
agagaagaaa agcaggctgc ctgagccagc agtggcaacc cgcttgggtc cccttccaca	540
ctgtggaagc tttgttcttt cgctctttgc aataaatctt gctgctgctc actctttggg	600
tccacactgc ctttatgagc tgtaacactc accgcgaagg tctgcagctt catctgaagc	660

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agcgagacac gaaccaccca ggaggaacaa acaactccga tgcgctgcct taagagctgt	720
aacaccgcga ggtctcgagc ttcactcctg agccagcaag accacaaacc caccagaagg	780
aagaaactca ggaaaacagc cgaacatcag aaggaataaa ctctggacac accaccttta	840
agaactgtga cactcgctgc gagcgtctgt ggcttca	877

<210> 375
 <211> 1030
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(1030)
 <223> ltr13

<400> 375	
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acagcaaaga aaataattag aataagaaaa gttttactag agataggaaa cggataggat	120
tatatctgac tattattaat cattagtttg tagcatcact ctttgttcta ttaccataat	180
gatctctgtt ctattatgat taccttgggg gaaaccaggc cacacagagt taggagctga	240
agggccacag tgagaggtga ccagaagacg agagtgtgag ccctcattca cgcccagaga	300
agggccgctg gagggctcct tggcctagcg gtaatgccag tgcctgggaa ggccctgggt	360
acttagcagg ccttggtcta gcggtggccc cagtgcctgg gaaggcaccg gttacttagc	420
agaccgggaa aggaatctcc ctctctccag gggagacaga gaacgctccg ctccaccacc	480
tcttggtgga ggtctgacat tagccaggcc gggccgagtc atccggaggc tccaacgtct	540
gtctccctgt gatgctgtgc ttcagtggtc acgctccttg ttcactttca tggtcagcct	600
gtgcacctgg ctctctcttt taagttctta gaagacagca gtagcagaac tagtaggagt	660
accacagtct tcgatctttc tgataagtgc atagaagaaa cgctgacgtt tgctgtcctc	720
cctctccacc tcggctacca caaagggaaa ggccccctgt ccagtggaca cgtgactcgc	780
gtgacctatc gatcattgga gatgactggc actccttacc ctgccccctt gccttgacta	840
caataaatag cagcgcctcc aggcactcgg ggccactacc tgtctgtctc cgcgctttgg	900
tggcagtggg cccccgggccc cagctgtctt tcttcctatc tctttgtctt ctgtctttat	960
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ggaccctaca	1030

<210> 376
 <211> 548
 <212> DNA
 <213> Homo sapiens

30307CNT1.ST25

<220>
 <221> repeat_region
 <222> (1)..(548)
 <223> ltr14

<400> 376
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 gcgagacctg ctctctctta tctgtaaaca ctgtattcaa ggagaaagac cctcctttga 180
 agcattggaa tgtggacaga cgtgcaggct cctagttaag cccactccca ctagctactc 240
 tccgataagt taaagatatg ctgtttgagc acaaaggaga ttcatttaaa gcgcttctgc 300
 tgtagattat gcctgtgacg cactgctacc ctttactgt tttgccctga acatctgctt 360
 cttagatcta agttattgta ctcaataaat agtgtggaga ccagagctct gagccttttg 420
 cagcctccat tttgcaattg gccccctggc ctccactctt tatgaactct taacctgtct 480
 cttctcattc ctttgtcacc accagacttc aggtacccta caggtggtgt tgaggctggt 540
 ccccaaca 548

<210> 377
 <211> 344
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(344)
 <223> ltr14a

<400> 377
 tgggagaaaa gctgagtgtt gggagagaag ctgaggcagg gcttgcatgt ctgctagact 60
 tgctggctcc ttgcttctag cactcccatt atctcaagca gccatatgtt tctcattcac 120
 ttgatacact gtttcctttc aacccccaca tcctcaccac ctgtttcttt gtttgagcac 180
 caataaatag cgtgggctcc cagagctcag ggccttcgca gcctccacac tcgcgatggc 240
 cccctggtcc cactttctct ctcaaactgt ctttttctca ttcctttgac tccgccggac 300
 tttgtcgcgc ccacgacctg gtgttgggtc tgatcacccc aaca 344

<210> 378
 <211> 608
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(608)
 <223> ltr14b

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<400> 378
 tgggagaaaa gctgagtgtt gggaaaagct gaggcagggc ttgcatgtct gacataatgt 60
 aaaagagtct tggaacatgt ccgggggtcca ggggtctaaaa cccctcgtgg cctttggaac 120
 accaagctct gtgctaaagg gtggaaggct accctgacgc accataatct aagcccaggg 180
 cataaaaccc ctcgtggctt ggatagaatc cagggctcgt ggcctctgga atgtgtctag 240
 acttgctggc tccttgctcc ttgctctccc aggatcgatt gtatcttgag ttaaaagaac 300
 ctgctctcca ttatctcaag tagcagaaca tgttccatat gcctcaaagg aaatgctaaa 360
 ccatcacagc tgtagatcat gcgcttaatg caacttgccc tttcgacccc cacattctca 420
 ccacctgttt ctttgtttga tcaccaataa atagtctggg cttccagagc tcggggcctt 480
 tgcagcctcc atacttagcg ttggccccct ggaccactt tctctctcaa actgtctttt 540
 ctcattcctt tgactccgcc ggacttcgtc acccccacga cctggtgttg ggtctgatca 600
 cccaaca 608

<210> 379
 <211> 587
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(587)
 <223> ltr14c

<400> 379
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 tgggaagcca tgggcggcct ctgaggagaa aagtctcctt attgccttca tgtctttatg 120
 ccccgagagc ataaccgctc agcggcattc cacaggttgc tcagggagat aacactccct 180
 tgaagcagtg gagtataatc aaacatcttg gctcctcctg aaaccactc ccaccgttt 240
 cagtcccgat aagttaaaga tcttaagtag tttagacaca cgcttttgct caaggaaatt 300
 cacagaaacc gccactgcta cacatcttat cgaatgactc acgagttctc cttcactgat 360
 taatcctttt cctcatccct tcctccccct cccatctgcc ctaagaacaa agagcttgta 420
 aaccaataaa ttgggtggag cccaagagct ctgggccgtg agcaagcctc cgatgctctg 480
 gtcccctgga ccgcctttt aaacgcttat tctgtctctt tctaactcct ttgtctccgc 540
 cggactcggg gtaccactg ggtggtgttg ggctggtttc cccaaca 587

<210> 380
 <211> 493
 <212> DNA
 <213> Homo sapiens

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<220>
 <221> repeat_region
 <222> (1)..(493)
 <223> ltr15

<400> 380
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 aaacccaatt cctcctgagg aagagaaaga ggtggagtcc tttaaaaatt cactgcctgt 120
 ttttccgtct gtagctagt agccttatct ctccctttcc caggcattgt gaagaccctg 180
 tttctccagc tgtgcagctg catggtcact agacagataa actcaagttg taaaacatgt 240
 ttttccttga aaagtaagaa atgatgtaat acatgtctca actgaataac tgtctttgtt 300
 tctcacttct gtagtaagct tccccctgca cagatctccc ctctcacccc atgaaatgct 360
 taaaaggtaa cctgactctt tgttcagggc tcagtccttt ggatgttaat ctgactgggc 420
 tgggtgcacct aaataatama tayatcctcc tcaaccccat cggctctctt gattcctaaa 480
 tcatcccaa aca 493

<210> 381
 <211> 450
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(450)
 <223> ltr16a

<220>
 <221> misc_feature
 <222> (58)..(58)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (124)..(124)
 <223> n is a, c, g or t

<400> 381
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 cyagctgctg ggagwgctgt cggcagacag ccctcagctg tcagcccctt caggaattgc 120
 ctngctgaa gagagccgcc tcgcccaggg tcacgcccc tccccggggc agcccacatc 180
 caatgactgr tcaatrtgga ggtataaagg cccggccctc tcgcccacac tcgggacaac 240
 tctgaagggc catyccagct ccagagctcc ccgtgggggc ggctgaggcc tttgttgcca 300
 ctgcattgca gcccaacttc tccctctgcc caatcctgct tccttccctt cccttcaca 360
 ggcgttgatc ccaagggcgc tccctaataa acctcctgca cgctaattct catctcagag 420

30307CNT1.ST25

tctgcttccc ggggaacca acctgcaaca

450

<210> 382
 <211> 457
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(457)
 <223> ltr16a1

<400> 382
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 cccagctgct gtgagtgttg gctgctaata gctcacagct gcccccttct ctggagaatt 120
 gccctcagct aataggagtt gcctcacctg ggagggtacc cccaccggg cagcccacag 180
 ccaatagact gactgataca ggggtacaaa agcctagcyc ccttgccctca aggtgggaca 240
 actcactctg tggtgcaatt catgctccag agctcccat gggatcaggc tgaggctaga 300
 cttcagctga aaccacatcc ttgcttagct tcttcccctg ccctatcctg cttccctcac 360
 tcccttaca gtttctcctg agagcactcc ctcaataaat cacttgaca agaatccctg 420
 tctcaggctc tgcttctagg gaaccaacc taagaca 457

<210> 383
 <211> 387
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(387)
 <223> ltr16c

<220>
 <221> misc_feature
 <222> (41)..(41)
 <223> n is a, c, g or t

<400> 383
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 aatgctgggg agttaacacc ccttggaagc agccctcaac caatgasaga tggggagttg 120
 gtggataaat accccagctt cctcaccct cagkgggata actctgaggt atgtgttcta 180
 cactgtctcc cagagtttcc cagyrggayt gagccccagt tgccacaggt ggtaacttgm 240
 taatatacay tttattggct tccttctctt tcctgtctca cttccccact tccctacyag 300
 tgtttcctgg gatcacctcc caaataaact acttgactc aaatccttgt ctcagggtct 360

gcttctgggg gaacccaaac taagaca

387

<210> 384
 <211> 464
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(464)
 <223> ltr16d

<220>
 <221> misc_feature
 <222> (182)..(182)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (353)..(353)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (391)..(391)
 <223> n is a, c, g or t

<400> 384
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 cgccccagc tgctgtccyt tggratccac cactgcgttt gcaccaaggc cacgcttccc 120
 tcaggctact ccagccagt gactgagcac ggcaggggtg ctaatgcagg cccgttcctg 180
 snagatgcgg gactcctccg acgggcaact ttggctcgag gactcctcat cagcctgggtt 240
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 cccctctcct ttacaggtg tcagacctgc atcatggtcc gaagtctctc ctngcccgct 360
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 accctgtctt ggcgtctgct tctcagagga cctgaactaa caca 464

<210> 385
 <211> 780
 <212> DNA
 <213> Homo sapiens

<220>
 <221> rerpeat_region
 <222> (1)..(780)
 <223> ltr17

<400> 385
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30307CNT1.ST25

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aggtgaccgc ttccaccttt aaacacgggg cttgcaactt agctcacacc cgaccaatca 120
ggtagtaaag agagctcact aaaatgctaa ttaggcaaaa acaggaggta aagaaatagc 180
caatcatcta tcgcctgaga gcacagcggg agggacaatg atcgggatat aaaccagggc 240
attcgagccg gcaacggcta ccctctttgg gtccccctcc tttgtatggg agctctgttt 300
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cgctcccgat cgggctaaag gcttgccatt gttcctgcac ggctaagtgc ctgggttcgt 540
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ctaatagagc tataacactc accgcatggc ccaagattcc attccttgga atccgtgagg 660
ccaagaaccc caggtcgag aacacgaggc ttgccaccat cttggaagtg gcccgccgcc 720
attttggaag cggcccgcca ccactctggg agctctggga gcaaggaacc cccggtaaca 780

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<210> 386
<211> 358
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(358)
<223> ltr18a

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<220>
<221> misc_feature
<222> (353)..(353)
<223> n is a, c, g or t

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<400> 386
tgtaaggaaa atggmtgtgc tkyrgtcaag gaataggcca aggcagacat ccggtscagc 60
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tgarrcgcac akgtaatcac ycacrtgagc tcatacttgg ctcggagcca ctattgtctg 180
traaaggtat aactgccctg ctgacgctgt gcacatggct cgcwycacc cagagagaga 240
ataaagccat gtctcaactg cctacgggtc ctcgagtgtt ytttcagcta cccgccacyc 300
atccacccac tccccctcga cctcagctta ggctggaacc tgacacttgg ctntgaca 358

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<210> 387
<211> 603
<212> DNA
<213> Homo sapiens

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<220>

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<221> repeat_region
 <222> (1)..(603)
 <223> ltr18b

<400> 387
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 aagctcatat tgggctcgga gccactattg tttgagaaag gtataactgc cctgctgacg 180
 ccgtgcacag ggctyktgcg ggcgcgcccr aagaaaagag agagagccag agttgtccat 240
 cttgtagacg gacaaggggg agccagggt cggctcgctt gccaccaga gaaawgagtt 300
 aagctgctaa ccctgtaagg gagagcctac cttgtaggcc agggaatgca gctgtgtgtg 360
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 gagctgctgc gagagagctg ctgatgagag agctagtgtg agtgagctgc tratgaaaga 480
 gctgctgaat aaarccatat tcaactgccta crgycccyg agtggtcttt cagctatttg 540
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 aca 603

<210> 388
 <211> 486
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(486)
 <223> ltr19a

<400> 388
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 ataaaccaca aatgacatct cggaccagaa acattccaac cctaagataa acccctcccy 180
 raccagagac atgccagccc cgagataacc tcccctccgg ccagagagat gtcagcccca 240
 asataacctc cccttcaacc agagacattc caaccccaca ataaacttct cccccacaca 300
 gaaacattcc aagcctgtga taaagctctc tcaccctaaa acccttaaact actcttagtc 360
 tgtaagagag agtgctcctg actgaaatcg gccagaagcc cctctcaggt ttattctcca 420
 aaataaacct gtctttgact gttgagccgc ttttcrtgtt tctttcctct ttctttaact 480
 cttaca 486

<210> 389
 <211> 580
 <212> DNA

<213> Homo sapiens

<220>

<221> repeat_region

<222> (1)..(580)

<223> ltr19b

<400> 389

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gcagacagta aaatacagat aagacagctc gggcacagag ggaggtggkr ggaaagtctc	180
ttgggtaact gccaaactty accctcatac aatgggcccc agtaaaayag kgggccttaa	240
taagcacatt ctttttcctt cgggtwcact aagatargga agctaaaagc agactcaggg	300
aggcggcggg gggatatgctt gcagctgcak raagatrtat gggarcagac ayacaaytst	360
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tcaccctgaa tccttaaaaa ctcttagtct gtaagagagt gtgcctctga cctaactcgg	480
ccagaagccc ctctcagggtt cgttttctct aaaataaacc tgtctttggt gactgkwgag	540
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<210> 390

<211> 826

<212> DNA

<213> Homo sapiens

<220>

<221> repeat_region

<222> (1)..(826)

<223> ltr1b

<220>

<221> misc_feature

<222> (200)..(201)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (224)..(224)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (245)..(245)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (322)..(322)

<223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (336)..(336)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (620)..(622)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (763)..(763)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (770)..(770)
 <223> n is a, c, g or t

<400> 390
 tgatatggac aggagacagg gaaatactgg gtagaagagg gtgggttcccc agcaaaggcc 60
 ccaccctcaa gcctggagac ctgcggccct aaatgggaac aggcattcct gttttcacgc 120
 ccaaaaagtt gccttttggc ccaccacacc ccctatcctg taccatata aaccccaaac 180
 cccaggctcc agaagcagan nagcagacaa ggagaggagc agangaggag acgagcagaa 240
 gagcngcaga atagtgcggc agagaagaga aggaacgtct gaacgccgag aggagttrg 300
 ctrgggrcrg tcagagarga gntcagccgc tggayngcca aactccaggg gaagatcatc 360
 ttcccaactcc atcccctttc cagctcccca tccatccac tgagagccac ctccaccact 420
 caataaaacc ccygcattca ccataccttca agtccatgtg tgacccgatt cttctgggat 480
 gctagacaag agcttgggat acagaaaagct gtcacactgg ccctctgccc ttgcaaaaag 540
 gcagagggtc cactgagctg gttaacactt aagccatctg tggacggcaa agctaaaaga 600
 gyacactgta acacatgccn nccccacttg ggcttcrnga gtcacaggca cccacccta 660
 gatgctgcca tggggccaga gcccaaaagc actcaccaca gctcctgcwc ctgcccgtct 720
 gcatgctccc cctcctgtaa ggggtttgag cgtgtggcga ccnaacagr n gagccacacc 780
 cctgtcrat gtcctgcrag ggggrtcagg gaactctccc atttca 826

<210> 391
 <211> 449
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region

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<222> (1)..(449)
 <223> ltr2

<400> 391
 taaggaagga gaccacctct cccattgtct cctgtttcat gagaaagcaa aaagttaaaa 60
 aaagaagcag aagtgagatc aatggccaga tggtttagtg ccaagaacca ggcctggtag 120
 ttaaacaatca actcctgacc taaccgcttg tgctatccat agattccaga tattgtatga 180
 ggaagacttg tgaaactttc tgttctgttc tgctagcccc catcactgat gcatgtagct 240
 ctcagtcatg tagccccac ttgcacaatg tatcatgacc ctttcacgtg gaccctcag 300
 agttgtaagc tcttaaaagg gacaggaatc tttacttttg ggagctcgga tcttgagacg 360
 cgagtctacc aatgctccca gctgattaaa gcctcttcct tcatagaacc ggtgtctaag 420
 aggttttgtc tgtgactgtt cctgctaca 449

<210> 392
 <211> 512
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(512)
 <223> ltr20

<400> 392
 tggtawtgaa aggagttagc cagcttgctt taggcagaca gtaagggaaa ggggtccccag 60
 agaacctccg acccgcccca caagtgttta caccagatgt tttgtgcaga taaggggaact 120
 tgcacagggg gcttgccar acatkccac agtgaaaaat tttwttcytt aacacatgck 180
 cagtaagaaa aataaatcaa tatggagtag ctcagactra gggccyacat gcgactgga 240
 aggatggggg ggagccacca ggaattcgca ccttatgcaa atrrggaacc agcctcatca 300
 gcttytstat araagcyctk gtattcaact gtgaagtggc aaccwgmaac ctgctttcag 360
 gaccctctc ttttgctgag agcttttctc ttcttttcgc ttaataaatt ctgctcyacc 420
 tcacccttca atgtgtctgc atgcctaatt cttcctgggtc atgagacaag aacctggaty 480
 tagctgagct aaggagcaaa aaccctgcat ca 512

<210> 393
 <211> 569
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(569)
 <223> ltr20b

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<400> 393
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gcctaagaca tgcccacagc cgcacagata agaaaggcta cacaggagac ttgcccagac      180
atgcccgcaa tggaaaattc cgtcccctga cacatgtgca gtaaggggaa caaagcaata      240
tggagtaact caagctaagg gcccgcagtc gactaggag gatgggggtg agctaccaga      300
aattcgtgcc ttatgcaaat gagacaccca gccctcatcg gtttcttata aaagcctttg      360
cattcaactg taaaaatggc aaccctcttc cgggccccct ctccgcggcg gagagctttc      420
ttctttcgct tattaaactt tcgctccaac ctccaccttt gtgtccatgc tccttaattt      480
tcttggtcgt gagacaaaga actccgggtg atacctcaca aggagagact gagagactgc      540
tacattgtgg tgcattggcg agactaaca      569

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<210> 394
<211> 505
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(505)
<223> ltr21a

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<220>
<221> misc_feature
<222> (257)..(257)
<223> n is a, c, g or t

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<400> 394
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ctctccgcgc tgcccaccct tcccccaagc ctytttacat ttctaagccc ttatctaggc      120
accacggtga agccagcctg atagaagact tyacytatca grccttgctg caataaagca      180
aaccccaatt acaaaccatc cggaccgcac aggggggaggt cgtgggaarc ataaacaaac      240
tttacctaca ccctccngta ccgtaaacgt cacaagggtga tatgtggcar aattaaccag      300
caaacaaccc cgggatgcrq ccataccaaa gractccctc aaactccctk ccccaatrta      360
aaccctcat tctgtaagct tggggctgct tyccttgact gtkawggggg cagccgrcag      420
gttaataaar gcttgccctga acttggggct ctctctctyt ggtcctttct ctcggctrac      480
cttacattct cactctctaa gttca      505

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<210> 395
<211> 438
<212> DNA

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<213> Homo sapiens

<220>

<221> repeat_region

<222> (1)..(438)

<223> ltr21b

<400> 395

tgtaggggc rcccyrayca gacyrytccc ttccccctccc acaggmctta caatayrgtc	60
cyttgyrctc tccgcacagc taccccaggg caaaaracaa aycccccttc actgayccyt	120
ccagtaactg tscrgacagt tacaggatgc ggtyaacatr tctgttcacc tcgcataaca	180
aagctggcaa aaaaacatct ccaggatgcr gacaagwcac ytgacccyy gactcactca	240
gctcccsac ccyraccag ttctcctgca ccccaactc agctcccgca ccccgacctr	300
gttctggccc tataaaarcc tgctatwgtc tgtaagyrgg kctgcctcct yyaactgtgg	360
trgagcagcc aagcagctca ataaagcttg cttgcctgac tttgggtctc ytcctcctt	420
ctctcggctg accttaca	438

<210> 396

<211> 580

<212> DNA

<213> Homo sapiens

<220>

<221> repeat_region

<222> (1)..(580)

<223> ltr22

<220>

<221> misc_feature

<222> (431)..(431)

<223> n is a, c, g or t

<400> 396

tgtddggrrt castcaggvt ggtggsagaa atattaaagg gaaatattag ggaaagttat	60
aggaaatagh cacaaacctt cttggaaggc ctgaragttt gcawaacttc rgtaatagat	120
htggctgaag gcagccartt cccttacctt wragcattar akcatagggt aaatacwaag	180
gaawatagag gcttccccag ttaagtctgt ttaycctacy tccattaact agcttgttka	240
stcakgtggc cctmttgggg maggtcgacc agggatattg cccstaatag gtatttactt	300
yagaccwggg tgcctragct ttaatcatta ctwgggstac tctcttaacm atgtyaatta	360
cccwcwagtg tgttgactca aagcctttgt yawtwaatct atactraata aatgcctgsa	420
gtgcyagctg nttagggcca gcwgcwgtka caaaccttyc ttggwgtstg taagcggcct	480
ggacactcag ctggactggc aaagcagaat atctgtgtgt cagtgtacrt tttattcatc	540
cgtcatttgg gtcagggtct gcgggtgaca gacccccaca	580

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<210> 397
 <211> 458
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(458)
 <223> ltr22a

<400> 397
 tgtgggagat cggtcagagt ggtgggaaaa actatagga aaggacgaa accttctgaa 60
 aggtcagaag gttctgcaga gccccggggg agaataagctg aaggcagctg ttctataacc 120
 ctgaggcaga gggcaaggag taggtacaag ggagtgtagg ggaatttatc ttaaacaggc 180
 ttgtttactt atgttgacca ggaactgacc tttgatcatc cgcgcgctg acgttccctg 240
 aaaggggaac aataaatgtt aattaccgc aggttgtgtt tgctccaggc ttcggcatt 300
 gtgcctgcac tgaataaaag caagcagctc cagcttctcg gggctgctct ctggccacta 360
 gagccaggca gtcacctagc tgctcttacg ctgcatacct gtgtctgagt actcatttca 420
 tccatcggtc ggccagggtc tgcgggacag acccgga 458

<210> 398
 <211> 492
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(492)
 <223> ltr22b

<220>
 <221> misc_feature
 <222> (234)..(234)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (306)..(306)
 <223> n is a, c, g or t

<400> 398
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 aaccttcttg gaaggccggg aagtttgcac aacttcggta atagatctgg ctgaaggcag 120
 cctaaccct ttacctttag ttaaataaat tagagtagaa acaaaggaat gtagaggagt 180
 ttatctagmt agcttggtta ctcatgtggt cytaagacta acctttgatc tacngcaggc 240

30307CNT1.ST25

gcttaattgc tttctacttg ggaagtccac aatgtcaatt accctctagt ggtgttgact 300
 caagcntttg tcaattaatc tttactgaat aaatgcgagt ctactggct ggtcggcaac 360
 tgtttacagc actctcctgg gagtctgtaa gcggcctgga cmctcagctg gactggcaaa 420
 gcagaatatc tgtgtgtcag tgtactttat tcatccgtca ctgggtcagg gtctgtggga 480
 cagactccca ca 492

<210> 399
 <211> 437
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(437)
 <223> ltr23

<400> 399
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 ggcccagaga gacatgagta tgggacttca gtcatgtccc tactccccct crccatgccc 120
 gggggcaatt gtttgaaggc attttgttcc tgactagctg cctcatccat tatcttcatg 180
 ttcttggaat ttgtgataca aagaacaatg tatagccaat caatagcywa tgttatttta 240
 atgtaaatty ytggtaaaca acttaaggaa ctscctcttc tttttttcct ttaaaaacca 300
 cttgtaactg ctgctaattg gagtgtatat tcagggcaac ttgaatctat gctcccaggt 360
 tgcagtcctc aagcttggcc caaataaact ctctacttat attaattttg cctcagcttt 420
 ttccttttag gttgaca 437

<210> 400
 <211> 490
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(490)
 <223> ltr24

<220>
 <221> misc_feature
 <222> (131)..(131)
 <223> n is a, c, g or t

<400> 400
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 gaggaatgtg gctatgcggc ctgagtcatg tagcatgcag ctgcaacttc tgcttytctg 120
 atttagatta ncttttttcc ttattcctgt actgtaaatr attaggaaga ccaaatggcg 180

30307CNT1.ST25

ccagagataa gacccctca gatcactacc cttctcaca gaatgataaa gyaatcttcc 240
 ttggaatgta gcaakctgta accaatcaaa tcgctgtaac atatgcactg gycctgtatg 300
 gaaaatgttg taatcctgct aaaatttctc tgtctctgcc tatataagtg aaaccttaac 360
 ttctccactt tggaacgctg accccattcc tttggagtct gtgtttcctg ggtggccatc 420
 ctcaagcttt gcgctcgaat aaactctata cttaatcata ttttctgaat ctcattattt 480
 aaggttgaca 490

<210> 401
 <211> 576
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(476)
 <223> ltr24b

<220>
 <221> misc_feature
 <222> (7)..(7)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (179)..(179)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (189)..(189)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (487)..(487)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (494)..(494)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (500)..(500)
 <223> n is a, c, g or t

<400> 401
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30307CNT1.ST25

ccctggagac tgagtcagta gcatgtttgc aattctgttt cttagattat agattaactc	120
tcttcctcat tgttcttggt ctgtaaatga ctaggagaga ccagagacca gacctccnc	180
cagctycnt tccaatcact gatctttggt atagattaac tgcctccttt attgtcctgt	240
acctaactca gaccagatgg tgcaaaagac cccatgactg ttacatcttc agtgtggaat	300
gttaaatata cttttccga aagaaaaaga ccaccttaac taatcagatt gttgtaacta	360
tgcattaagc cttatataga aagatgttga aattctgtta agcttccta aactttgtct	420
atataaatga tcccaaactt ctacacttcg gaacactgac ttccattctt tggaatctgt	480
gyttccnggg tggncatcn tcaaactttg cacttgaata aactctcttt aaactagatt	540
ctgacccttt tgattatattt aggttgacag tgcyta	576

<210> 402
 <211> 794
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(794)
 <223> ltr25

<220>
 <221> misc_feature
 <222> (477)..(477)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (786)..(786)
 <223> n is a, c, g or t

<400> 402	
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ctgacccacg ggctcagtgc tcatccccac ataacataaa aaagcagcct gggaaaaaaa	120
atcaagctgc aggaccaat aagggaacta gcacaggggg ttgtgcctgg agacatgccc	180
acggctgcac agataggaga acctccagcc cattcagata aaaacttaca caaacctccg	240
gctcactcag ataaagaaac aaggcctgac ataraaatgc ctttgtcctt tgtataatca	300
gcgggctccc aggaaaaagt ttcttctcct tttgtgggca tgaacacagt gggctctggt	360
gggttccggt ggacactttc ctttcctttt tttggactgt aagcctggcc tctatgaatc	420
atcacttcag ctcttgattg rtcccgggcc aaggctcctg gccaaactga gtagccnctg	480
tgaatcatca cttcaactyc tgattggtcc caggccaagg tcccgggcca agctgagtca	540
cacgttctcc aagacagccc acagactaaa cacattcctt ccccttccca gtccataaaa	600

30307CNT1.ST25

accccgagacc ccagcctcat agkggrcaac ccattcgggt cccctctctcc gctgrcagag	660
agctttcttc tttcatttat taaactttca ctccaacctc acctttgtgt ccacgctcct	720
taattttctt ggaggtrrga caaagaactc tgggtaytat ctcagacaat gagagactgc	780
tacatnttgg tgca	794

<210> 403
 <211> 603
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(603)
 <223> ltr26

<400> 403	
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aaataaacca agcttgcagc acattcagca ttaatcatka ggtagcttg ctctctgacc	120
tgcttcctca tagttgtttg gtgcctattg cctyagaatc acgtagaccc tggtacaaga	180
ttatagttcc ccttaactgc tctatagata acaacttgaa cattatgaaa cgtaagttt	240
tccctttgag atattccttc gggtcctgca taccgatgaa actactgaca actgacgyca	300
gctgggtctga aggacccac gaggagctga ctaccaaag aatgcagttt ccacatcctg	360
atgatttcat ccccttacc ccgaccaatc aacaaccca attttcagc cctcgcctt	420
ccatgatccc cttaaaaacc ccagcccaga actcctcggg gagatggatt tgagggctctc	480
ctcccatctc ctgcctcagt gccctgcgat cattaaactc tttctctgct gcaaaccctg	540
ctgtctcagt gtaattggtc tgttactgcg cagtgggcat atgaacctgt tggtcctata	600
aca	603

<210> 404
 <211> 622
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(622)
 <223> ltr263

<400> 404	
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agcactagat actgaccatt tgcacccca ttgttcctat agataggatt tctgacctta	180

30307CNT1.ST25

gaatcatagg tttttgttta agaattgatt tgcaccccca ttgttcctat agacaggatc	240
tctgacctta gaatcataag gcttttgttt aagaattgct taagatgttt ttcagatcct	300
gaattccagc ggaacagctg atgccaacca gtttgaagac cccacagag gaaccgaatc	360
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caatcaacga tccccacacc tcggccact ccaaaccct taaaatccct agccccaac	480
tcctcgggga ggcgatttg aggtttcctc ctgtctcctc attcggctgc cctacgatta	540
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caacaaacct attacggtca ca	622

<210> 405
 <211> 636
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(636)
 <223> ltr27

<400> 405	
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accagactga gaacttgtct tcctgttttg tgtgctttcc tctgattgat ccctaccctt	180
cacctatttt atgtatacct accctttcct aattggtttt ctgtactgcc aggccactt	240
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cccattctga gtccataaaa ggccctggac ccagccacat gggggacttt cctgccttca	360
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ttcttctctg tcctcctcac atttcaatgt tcagtgcac ctcattcttc ttggatgtgg	480
gacaagaact tgggaatcag tgcacaagcc agacttggcc tgggaaggcc aactgggcag	540
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<210> 406
 <211> 1020
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(1020)
 <223> ltr28

<220>
 <221> misc_feature
 <222> (356)..(356)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (379)..(379)
 <223> n is a, c, g or t

<400> 406
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 cctcagaccg gaktgagaac ttstcttcct gtttggcgcg ctttcctctg attgatcccc 180
 acccttcacc tattttacat ataccacccc tttcctaatt ggytttttac actgtcttgc 240
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 gcttgacttc atasttggn gaagrattgg gagagagaca acctgacttc agggaagacg 420
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 aataaaattc tccgccttca ccataccttca attgtcagcg tracctcatt cttcttggac 540
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 ccagccchag agccaygggc tggagtgagg caagggggccg actgagctgt taacacgcat 720
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 cttcggggtc gcgggcaycc ytacctgggt gctgccgcat tcccctccag gtgacatgcc 840
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 cagatccgc actcgctgc tcgctgtct cctcccga gggggtgagc gbggcgggct 960
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<210> 407
 <211> 619
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(619)
 <223> ltr29

<220>
 <221> misc_feature
 <222> (87)..(87)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (89)..(89)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (107)..(107)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (199)..(199)
 <223> n is a, c, g or t

<400> 407
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 gttcccttat ctgcctaaag tccagacca ccaaggagaa caattgtttt ttgttcccct 180
 ccctgagttt atctcattn g aatctatttc aggaaagaag accaaagaat gtaaccacac 240
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 <212> DNA
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 <223> ltr32

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 tatgtaagtc cccaataaac cctatgtctc atttgctggc tctgggtctc ttcttcggcc 420
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 <223> ltr33

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<212> DNA
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<223> n is a, c, g or t

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<222> (40)..(40)
<223> n is a, c, g or t

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 <222> (1)..(616)
 <223> ltr35

<220>
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 <222> (102)..(102)
 <223> n is a, c, g or t

<220>

<221> misc_feature
 <222> (167)..(167)
 <223> n is a, c, g or t

<220>
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 <222> (169)..(170)
 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> charliela

<220>
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 <222> (249)..(249)
 <223> n is a, c, g or t

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<212> DNA
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<223> cheshire_b

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<212> DNA
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 <223> harlequin

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gacacyatca	agaaaatgaa	aagacaagcc	acagactggg	agaaaatatt	tgcaaawcat	3120
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aagacaaata	acccaattaa	aaaatgggca	aaggayttga	acagacattt	cwccagagaa	3240
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<210> 426
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<212> DNA
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<220>
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aaaaatggat ttttaattgaa tccccaacc ataatgacag atttggaatt aggtgcatc      240
aaggcttcta aaagtgaatt tcaagggtgt accaataaag tttgtttttt tccattcagc      300
ccaatgcatt tggtggaataa ttcagatgag tggattggcc atgcatgacg gcaacgacga      360
aaacttcagt ttaaaaatgc gtcatttgcc tgcattggca ttccttcag ctgatgacat      420
tccgggagct tttaatgaat taaagccgca tttgcctgaa gaagtcagcg aagttactga      480
ctggttcgaa aataattatg tgcacggtag gataagaaga cacttacaca acggtgttgc      540
cgttcgatta ccagtattgt ttctaccaa tttgtggtct gtatatgagt gcatgcagaa      600
tggatttcta tatacccaa acaacataga agcatggcac agaagatggg aaaatttaat      660
agggaatgct catgtcggtg tatatcgaat cagaagattc aaaaagagca gcgccacgta      720
gaaatgaat gtgaacatat tctccgagga gagccatgtc ctaaaagaaa aaaaaaagca      780
gctattcatc gcgatgcaag acttcaaaat atagttaatg atcgtgaaag tcggccagct      840
cttatggact atctccgtgc aattgcccac aatctatccc tgtaatatac tttttcatat      900
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cattagtata cctgagtgtt tatgcttgca aaaatatgta tgttattatt gcctatttta      1500
ttgtgtaaag tggcctatga agtgttctgt catgttttta tatgtttctc aaataaatcc      1560
ccttttaaaa atgtaaataa atatctttta aaaaattttt aaattatttt ttccagaatt      1620

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atatttttgg gattttgatc tttcgggatt tcaacattcg ggattatggc gttcgggatt 1680
gtgtcttttcg ggattatgat cggctccc 1708

<210> 427
<211> 351
<212> DNA
<213> Homo sapiens

<220>
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<222> (1)..(351)
<223> tigger5_a

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cctaccttaa acatgctcag aacacttaca ttagcctaca gttgggcaaa atcatctaac 180
acaagccta ttttataata aagtgttgaa tatctcatgt aatttaytga atactgtact 240
gaaagtrara aacagtatgg ttgtatgggt acttgaagta cggtttctac tgaatgtgta 300
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<210> 428
<211> 446
<212> DNA
<213> Homo sapiens

<220>
<221> repeat_region
<222> (1)..(446)
<223> tigger5_b

<400> 428
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cctaccttaa acatgctcag aacacttaca ttagcctaca gttgggcaaa atcatctaac 180
acaagccta ttttataata aagtgttgaa tatctcatgt aatttactga ayayartaca 240
ctgtagarta yyggttgttt accctcgtga tcgcgcggct gactgggarct tgcggytcac 300
tgycgctgcc cagcatcgcg acagagtatt gtaccgcata tcgcyagcct gggaaaagat 360
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<210> 429
<211> 30
<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(30)

<223> oligonucleotide HIRA genomic sequence (positions 853946-853975)

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30

<210> 430

<211> 32

<212> DNA

<213> Homo sapiens

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<221> misc_feature

<222> (1)..(32)

<223> oligonucleotide HIRA genomic sequence (positions 859116-859085)

<400> 430

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32

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<212> DNA

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<221> misc_feature

<222> (1)..(33)

<223> oligonucleotide for HIRA genomic sequence (postions 819901-819933
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<400> 431

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33

<210> 432

<211> 34

<212> DNA

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<221> misc_feature

<222> (1)..(34)

<223> oligonucleotide for HIRA genomic sequence (positions 823592-82355
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<400> 432

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34

<210> 433

<211> 30

<212> DNA

<213> Homo sapiens

<400> 433
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<210> 434
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<220>
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<223> oligonucleotide from PAC clone containing Necdin gene (positions 72122-72156)

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<223> oligonucleotide from PAC clone containing Necdin gene (positions 75666-75637)

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<222> (1)..(35)
<223> oligonucleotide from PAC clone containing Necdin gene (Positions 94501-94535)

<400> 439
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<210> 440
<211> 35
<212> DNA
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<220>
<221> misc_feature
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<400> 440
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<210> 441
<211> 32
<212> DNA
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<220>
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<222> (1)..(32)
<223> oligonucleotide from PAC clone containing Necdin gene (Positions
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76608-76639)

<400> 441
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<210> 443
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<400> 443
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<210> 444
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<212> DNA
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<220>
<221> misc_feature
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<223> oligonucleotide primer for CDC2L1 gene (positions 13028-13057)

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<210> 446
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<212> DNA
<213> Homo sapiens

<220>
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<400> 446
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<210> 447
<211> 69
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<220>
<223> Description of Artificial Sequence: repetitive sequence found in many eutherial genomes. Length of core repeating element is variable and is often polymorphic

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<210> 448
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<210> 449
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agagagaga 69

<210> 450
<211> 69
<212> DNA
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<220>
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acacacaca 69

<210> 451
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caaacaacaa 69

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<210> 454
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<210> 455
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<220>
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<400> 455
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 cctacctac 69

<210> 456
 <211> 69
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: repetitive sequence found in many eutherial genomes. Length of core repeating element is variable and is often polymorphic

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 cgcgcgcgcg 69

<210> 457
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: repetitive sequence found in many eutherial genomes. Length of core repeating element is variable and is often polymorphic

ble and is often polymorphic

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cgaacgaac 69

<210> 458
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<220>
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cggacggac 69

<210> 459
<211> 69
<212> DNA
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<220>
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gaagaagaa 69

<210> 460
<211> 69
<212> DNA
<213> Artificial Sequence

<220>
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<400> 460
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gaaagaaag 69

<210> 461
<211> 69
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: repetitive sequence found in
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many eutherial genomes. Length of core repeating element is variable and is often polymorphic

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gacagacaga cagacagaca gacagacaga cagacagaca gacagacaga cagacagaca 60
gacagacag 69

<210> 462
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<212> DNA
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<400> 462
ggaggaggag gaggaggagg aggaggagga ggaggaggag gaggaggagg aggaggagga 60
ggaggagga 69

<210> 463
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<210> 465
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30307CNT1.ST25

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gccagccag 69

<210> 466
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<210> 467
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ggaaggaag 69

<210> 468
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<220>
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ggcaggcag 69

<210> 469
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<400> 469
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 gggagggag 69

<210> 470
 <211> 69
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<400> 470
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 atatatata 69

<210> 471
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<400> 471
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<210> 472
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<220>
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<400> 472
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 taaataaat 69

<210> 473
 <211> 69
 <212> DNA
 <213> Artificial Sequence

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<223> Description of Artificial Sequence: repetitive sequence found in many eutherial genomes. Length of core repeating element is variable and is often polymorphic

<400> 473

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ctactacta 69

<210> 474

<211> 69

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: repetitive sequence found in many eutherial genomes. Length of core repeating element is variable and is often polymorphic

<400> 474

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tacatacat 69

<210> 475

<211> 69

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: repetitive sequence found in many eutherial genomes. Length of core repeating element is variable and is often polymorphic

<400> 475

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tagatagat 69

<210> 476

<211> 69

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: repetitive sequence found in many eutherial genomes. Length of core repeating element is variable and is often polymorphic

<400> 476

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tcaatcaat 69

<210> 477

<211> 69

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: repetitive sequence found in many eutherial genomes. Length of core repeating element is variable and is often polymorphic

<400> 477

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tccatccat 69

<210> 478

<211> 69

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: repetitive sequence found in many eutherial genomes. Length of core repeating element is variable and is often polymorphic

<400> 478

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tgaatgaat 69

<210> 479

<211> 69

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: repetitive sequence found in many eutherial genomes. Length of core repeating element is variable and is often polymorphic

<400> 479

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ttaattaat 69